





DR. R. GREY'S

IEMORIA TECHNICA,

OR METHOD OF

ARTIFICIAL MEMORY

APPLIED TO AND EXEMPLIFIED IN

Chronology, History, Geography, Astronomy.

ALSO,

JEWISH, GRECIAN, AND ROMAN COINS, WEIGHTS, MEASURES, &c.

TO WHICH ARE SUBJOINED,

LOWE'S MNEMONICS

DELINEATED,

IN VARIOUS BRANCHES OF LITERATURE AND SCIENCE.

A NEW EDITION, CORRECTED.

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PREFACE.

IT may be proper to acquaint the reader with what improvements have been made in this work since its first publication. In the tables of the patriarchs and ancient kings, care has been taken to signify, with the utmost brevity, the relation which every person bore to his immediate predecessor. In the geographical part, besides the adding of many remarkable places both in ancient and present geography, the memorial lines for the general and particular divisions have many of them been formed anew, with particular regard to the situation of the respective kingdoms, provinces, or countries into which those divisions have been made; so that every line is in some measure the epitome of a map. The tables of ancient coins, weights, and measures have been carefully reviewed, and very much augmented; and decimal tables subjoined, of great use for the more speedy and exact reduction of them. likewise added an Index of the historical, chronological, and geographical words; of the usefulness of which is given an account in the proper place. Besides these, there are several alterations and additions of less moment, interspersed throughout the whole; such as either my own experience or the judgment of my friends had suggested to me, in order to render the design more useful. I shall not trouble the reader with the reasons of them, which, if he compares the editions, he will very probably find out himself: nor do I think it necessary to apologize for having made them, since it could not be expected that an inventior

of this kind should be so perfect at first, as not to be capable of being considerably improved. And I was the more willing to bestow some care and pains upon it, and to give it what improvement I was able, in return for the favourable reception it has met with from the public, beyond what was expected by myself or others. An Art of Memory has by many been looked upon as a thing either in itself impracticable, or, at least, in the common methods of it, useless and trifling. And I was sensible that the following method would lie under the additional disadvantage of a whimsical and out of the way appearance; besides that, the seeming difficulty of it at first sight would, I foresaw, deter many from so much as attempting to make themselves masters of it. Notwithstanding these discouragements, it has ha the good fortune to give some satisfaction, and to meet with some success; and will, I hope, continue to be looked upon as an useful help to those who delight in reading, and would retain what they had read with faithfulness and accuracy, particularly in such points wherein their memories are most likely to fail them.

The objections which have been made to it from the difficulty of remembering the memorial lines would most effectually be removed by habituating young minds to them betimes, by the frequent transcribing and repetition of them. The technical words would by this means become natural and familiar, and of no small advantage to them in the course of their future studies; they would be easily received and long retained. But I shall say no more upon this point, having already touched upon it in the Introduction; to which also I refer the reader for what might further be expected by way of Preface.

INTRODUCTION.

IT is a general complaint amongst men of reading, and to many a discouragement from it, that they find themselves not able to retain what they read with any certainty or exactness. And in no part of literature is there greater soom for this complaint than in History: to the studying of which with pleasure and improvement, as nothing contributes more, so nothing has been thought more difficult to be retained, than a distinct and accurate knowledge of Chronology and Geography. Upon this account several attempts have been made to remedy, in some measure, the defects of the memory, by chronological and geographical tables, cuts, and maps, and by reducing the principal parts of history to certain epochas or æras, so disposed and contrived, as may be most likely to affect the imagination, and make the deeper impression upon the mind. Thus Mr. Hearne, in his Ductor Historicus, has reduced the whole tompass of chronology to thirteen grand epochas, all beginning with the letter C. Dean Prideaux, in his Introduction to History, has made use of the number seven, throughout his whole book; "not out of affectation (as he tells us) but experience, as most easy for the memory;" with others of the like nature, which serve at least to show that the memory wants assistance, and that small helps are better than none. But of all the inventions made use of for this end, none has been found to contribute more to the essistance of the memory than that of technical verses; ooth as they generally contain a great deal in a little compass, and also because being once learned, they are seldone or never forgot. For the truth of which I may venture to appeal to the weakest memories, whether they have not to the last found themselves in possession of that ever-memorable line,

Barbara Celarent Darii Feiro Baralipton.

Of this nature is the following method; the design of which is, not to make the memory better, but things more easy to be remembered; so that by the help of it, an ordinary, or even a weak memory, shall be able to retain what the strongest and most extraordinary memory could not retain without it. For, as he, who first contrived to assist the eye with a telescope, did not by that pretend to give sight to the blind, or make any alteration in the eye itself, but only to bring the objects nearer, that they might be viewed more accurately and distinctly; so neither is it oretended* by this art to teach those to remember every thing who never could remember any thing; or to make men in an instant skilful in sciences which before they were utterly unacquainted with; but only to enable them to retain, with certainty and exactness, what they have already a general and competent knowledge of: that they may not be obliged upon every occasion to have fresh recourse to their books or maps, or be under the tiresome necessity of reading the same things again and again, still forgetting them as fast as they read them.

To those who may object, of what use is it to be thus exact, and content themselves with an imperfect and confused remembrance of what they read; it might be answered,

^{*} Hæc ars tota habet hanc vim, non ut totum aliquid cujus in ingeniis nostris pars nulla sit, pariat et procreet; verum ut ea, quæ sunt orta jam in nobis et procreata, educat atque consirmet. Cicero de Oratore, lib. ii. edit. C. Steph, p. 182.

will not, trouble themselves about it; this being designed for the benefit of those only who think it is of use; and who, even at the expense of a little pains, would remember if they could: but, besides this, I believe it will be agreed on all hands, that to instance in history only, a man who has an exact notion of time and place, finds incomparably more pleasure, and makes a speedier progress in that study than he who has not.

I shall here beg leave to transcribe a passage from Addisson's Dialogues, upon the Usefulness of Ancient Medals: "There is one advantage, says Eugenius, that seems to me "very considerable, which is the great help to memory one finds in medals: for my own part, I am very much embarrassed in the names and ranks of the several Roman emperors, and find it difficult to recollect upon occasion the different parts of their history: but your medalists, upon the first naming of an emperor, will immediately tell you his age, family and life. To remember where he enters in the succession, they only consider, in what part of the cabinet he lies; and by running over in their thoughts such a particular drawer, will give you an account of all the remarkable parts of his reign."

If this be such a considerable advantage in medals, I hope it will be allowed that the following method is of some use, since by it a man may be enabled to remember when any emperor, from Julius Cæsar to Jovian, began his reign, and that as readily as you can name him, by the help of no more than seven memorial lines. The like he may do, with the same ease and readiness, by the kings of England, and so proportionably for any other part of sacred or profane history. For, how impracticable soever it may seem at first view, I have reason to believe, that any reader of a

common capacity may, by a regular proceeding and ordinary application, be able readily and exactly to answer most it not all, the questions that can be proposed, from the following tables.

The manner in which I would advise him to proceed (after having premised that he must not be too hasty at first, but make himself * master of one thing before he proceeds to another, beginning with such particulars as he has most occasion or inclination to retain) is this. First, let him learn to explain the several memorial lines, according to the method hereafter to be laid down, by consulting the tables to which they belong. 2. This done, let him, by ooking upon the tables, learn to make out the lines; and 3, Let him charge his memory with them, by frequent repetition. By this means the words will become familiar, how harsh and uncouth soever they may appear at first, and he will find it as easy to know the diameter, distance, and magnitude of any planet; the particular time or age of any remarkable person or thing; the longitude and latitude of any place, and the like, as it is to remember their names the whole art being in effect nothing more than this; to make such a change in the ending of the name of a place, person, planet, coin, &c. without altering the beginning of it, as shall readily suggest the thing sought, at the same time that the beginning of the word being preserved, shalbe a leading or prompting syllable to the ending of it so changed.

I would willingly here let the reader a little more into my meaning, which he may not otherwise so readily

^{*} Assumendus usus paulatim, ut pauca primum complectamur nimo quæ reddi fidelitur possint: mox per incrementa tam modica ut onerari so labor ille non sentiat, augenda usu et exercitatione multa continenda est, quæ quidem maxima ex parte memoria constat. Quintilianus, lib. x. edit. Gibson. Ox. p. 534.

INTRODUCTION.

apprehend, lest he should think there is more difficulty in the matter than there really is. I would ask him, then, if he thinks he could remember to call Cyrus, Cyruts; Daniel, Daniel; Alexander the Great, Aléxita; Julius Cæsar, Julios Cæsar; or Mahomet, Máhomaudd. If he can but do this, he has nothing else to do (when he is once master of the general key, and knows what letters of the alphabet stand for what figures) in order to remember, without any possibility of being mistaken, that the years in which Cyrus, Alexander, and Julius Cæsar founded their pective monarchies, were as follow:—

					4	Be	efore Christ.
Cyrus—Cyruts	0 10	 	•	 •	 ٠	•	536
Alexander—Aléxita		 • •		 •	 •	•	331
Julius Cæsar—Julios		 •		 •		•	46

And that the Mahometan æra, or flight of Mahomet was A.D. 622.—In like manner for Geography. Does he think he could remember to call Madrid Madroy-t, or Jerusalem Jeruta-ts, or Blenheim Blenhebav, or Thessaly Thessjan? This is all that is required,—to remember that the degree of latitude of Madrid is about 40, and the *longitude about 3; the latitude of Jerusalem about 31, and the longitude 36; that Blenheim is in Bavaria, and that what was the ancient Thessaly is the present Janna. Thus the reader will observe, that all that he has to do, is for one word to remember another, which only varies from it a little in the termination.† And to make even this easier to be remembered,

^{*} The reader is presumed to be so far acquainted with geography, as to be able to tell which is eastern and which is western longitude, when he is informed that the first meridian is fixed at London.

[†] In many words the variation is very small: as K. John K. Jann, Inachus Inakus, Solon Solun, Herodotus Herodofus, Plato Platok, Trajank, Cleopatra Cleopatla, Gordian

the technical words are thrown into the form of common Latin verse, or at least of something like it. For as there was no necessity to confine myself to any rules of quantity or position, I hope I need make no apology for the liberty I have taken in having, without regard to either, and perhaps now and then without so much as a regard to the just number of feet, only placed the words in such order as to make them run most easily off the tongue, and succeed each other in the most natural manner. But this by the way for the reader's encouragement.

In the mean time, till he can repeat the memorial lines, and to those who are not willing to give themselves any trouble at all in charging their memory with them, the tables themselves will not be without their use; of which it may be expected that I should give some account.

For the chronology and history I have chiefly consulted* Archbishop Usher's Annals, Marshall's Chronological Tables the Rationarium Temporum of Petavius, Mr. Hearne's Ductor Historicus, and Bishop Beveridge's Institutiones Chronologicæ. The succession of the Assyrian and Babylonian Monarchs, the Kings of Persia, Media, Syria, Egypt, &c. are taken from Dr. Prideaux's Chronological Tables, at the end of his Connexion; the times of the flourishing of the Fathers, Heretics, Councils, &c. from Dr. Cave's Historia Literaria. The Roman Emperors, and the time of writing of the canonical books of the New Testament, from Mr. Eachard's Roman and Ecclesiastical Histories. The Legatine

Gordin, the battle of Marathon Marathonz, Attifla, Cræsus Cræsuse, Austin Austins, &c. Those which appear more difficult will be full as easy, when familiarised by use.

^{*} It may be some satisfaction to the reader to know, that Mr. Bedford (as he tells us in the Preface to his Scripture Chronology) never differs from Dr. Prideaux; and even from the creation of the world to the destruction of Jeruszlem, never above five years from Archbishop Usher, the late Bishop of Worcester, or Mr. Marshall-

nd Provincial Constitutions from Bishop Gibson's Codex Iuris Ecclesiastici. The astronomical calculations are from Dr. Derham's Astro-Theology. I have also added Mr. Whiston's, from his Theory of the Earth. In the geographical part, my chief guide has been Dr. Wells's Treatise of incient and Present Geography, whose Maps may be conulted by the learner. For the coins, weights, and meaures, I have chiefly been obliged to Dr. Arbuthnot's books nd tables, not without consulting Bishop Cumberland, Dr. Bernard, and Bishop Hooper, and other writers upon that ubject, of whom I have made what use I thought conenient. If any prefer other authors, who differ from these hey may easily apply the art to their favourite author, by a hange of the words, according to the method laid down. and, indeed, when the reader is perfectly master of it, he yould do well to form words for his own use, which perhaps e will sooner remember than those which I had formed for line; my design being rather to give a specimen of what night be done by it, than a set of complete tables in the espective sciences.. If some think I have been deficient in eaving out what they suppose worthy of remembering, others erhaps will think I have been too full. To both these I nswer, that I impose no task upon my readers, nor desire prevent their own improvements: they may add what ney please, and pass by what they please. Nor do I think at all necessary that they should be able to answer every articular in the following tables; only this I may venture affirm, that if they once charge their memory with them, ney will find them no burden, and that it is not only praccable, but easy to be done.

It is not to be expected that gentlemen, who have gone arough the course of their studies, will trouble themselves begin again anew, and go regularly through the whole;

but it is submitted to those who have the education of young students in the universities and public schools, whether it would not be of some service towards facilitating the progress of their pupils and scholars in useful knowledge, to have them early and thoroughly acquainted with this small treatise. It is the advice of Quintilian, that boys should be used to repeat, as fast as possible, harsh and crabbed words and verses, purposely made difficult, in order to give them a more full and articulate pronunciation. His words are these: * Non alienum fuerit exigere ab his ætatibus, quo sit absolutius os et expressior sermo, ut nomina quædam versusque affectatæ difficultatis, ex pluribus asperrime coëuntibus inter se syllabis catenatos et veluti confragosos quam citatissime volvant. The frequent repetition of the following memorial lines would certainly answer this end, and at the same time a much better; and if I might also recommend, as he does, the writing of them too, in order to make the deeper impression, it would doubtless have a good effect, and boys would be treasuring up learning even before they were aware of it. † Illud non panitebit curasse cum scribere nomina puer (quemadmodum moris est) caperit, ne hanc operam in vocabulis vulgaribus et forte occurrentibus Protinus enim potest interpretationem linguæ secretioris quam Græci γλώσσας vocant, dum aliud agitur, ediscere, et inter prima elementa consequi rem postea proprium tempus desideraturam. It may be sufficient to have just hinted these things to those whose more immediate province it is, and who are best qualified to judge what methods may most effectually contribute to the improvemen of those under their care.

From the account I have given of it, the reader will

^{*} Institutiones Orat. edit. Gibson. Oxon. p. 12. + Ibid.

observe, that the method here proposed is perfectly different from that of Simonides the Cean,* so famous among the ancients for being the first inventor of an art of memory, † o whom both Tully and Quintilian speak with respect, and of whose method of ‡ places and images (i. e. of having a repository of ideas, a large house, or the like, divided into several apartments, in each of which you are to place in order a symbolical representation of the things which you would remember) they have given us a very full and particular account, as also of the occasion which first gave rise to it. What improvements have been made of this method by some modern authors, or in what manner or with what success others have set up to teach privately the art of

^{*} Σιμωνίδης ὁ Λεωπρέπους, ὁ Κεῖος, Ο ΤΟ ΜΝΗΜΟΝΙΚΟΝ ΕΥΡΩΝ, ενίκησεν 'Αθήνησιν διδάσκων, καὶ αἱ εἰκόνες ἐστάθησαν 'Αρμοδίου καὶ 'Αριστογείτονος, ἔτη ΗΗ.—Μαrm. Arund. i. l. 70.

De Simonide hoc vide Joannem Tzetzem, Chiliade i. cap. 24, ubi victorias reportasse ait quinquaginta sex. Consule etiam

Valerium Maximum, lib. iv. cap. 7.

⁺ Non sum tanto ego, inquit, ingenio quanto Themistocles fuit ut oblivionis artem quam memoriæ malim; gratiamque habeo Simonidi illi Ceio quem primum ferunt artem memoriæ protulisse. Cicero de Oratore, lib. ii.

Constat artificiosa memoria locis et imaginibus, &c. Cicero ad

Herennium, lib. iii. edit. Car. Steph. p. 30.

Loca discunt quam maxime spatiosa, multa varietate signata, domum forte magnam, et in multos diductam recessus. In ea quicquid notabile est animo diligenter affigitur, ut sine cunctatione

ac mora partes ejus omnes cogitatio possit percurrere — — Tum quæ scripserunt, vel cogitatione complectuntur, et alio signo quo moneantur, notant. Quod esse vel ex re tota potest, ut de navigatione, militia: vel ex verbo aliquo. Nam etiam excidentes, unius admonitione verbi in memoriam reponuntur: sit autem signum navigationis, ut anchora; militiæ, ut aliquid ex armis. Hæc itaque digerunt; primum sensum vel locum vestibulo quasi assignant, secundum atrio, tum impluvia circumeunt, nec cubiculis modo aut exedris, sed stratis etiam similibusque per ordinem committunt. Hoc facto, cum est repetenda memoria, incipiunt ab initio loca hæc recensere, et quod cuique crediderunt, reposcunt, et eorum imagine admonentur, &c. Quintiliani Institutiones Orat. lib. xi. edit. Gibson. p. 561.

memory, I am altogether ignorant. Having found my own method sufficient for myself, I had no inclination to look after any other. What use it may be of to the public, must be left to experience. The novelty of it may perhaps recommend it to the inquisitive and curious; and I desire nothing more than that into whose hands soever it may fall, they would not be prejudiced against it upon the account of its seeming difficulty, before any have made trial of it; being inclined to think, that to any one, who is at all acquainted with it, it will be found to be so far from being really difficult, that nothing can be more easy, or more obvious. The representation of numbers by letters of the alphabet hath been a thing in practice, more or less, almost in every language. The only thing wanting was to make that representation further useful, by substituting vowels, as well as consonants, for the numerical figures, in such manner and proportion, that any number might be formed into a word capable of being articulately pronounced, and consequently more perfectly remembered. Amongst the Jews, indeed, of whose alphabet the vowels are no part, it was a practice, not only to abbreviate sentences and names of many words, by putting together the initial letters of those words, and making out of them an artificial word * to express the whole; but also to make use of natural words, to represent numbers, when they could meet with such as happened to answer the number they wanted to express. We have several pieces of ingenuity of this kind in the

^{*} As Rambam for R-abbi M-oses B-en M-aimon; Ralbag for R-abbi L-evi B-en G-erson; Maccabees from the abbreviation of the words in the standard of Judas Maccabeus, M-i C-amoka B-aëlim J-ehovah, i. e. Who is like unto thee amongst the gods, O Lord! See Prideaux's Connnexion, part. ii. book 3. Of this nature is what the reader will meet with in the beginning of the geographical part of this method, page 47, &c.

rontispieces of their Bibles, where they give us the year of he edition in some word or sentence of Scripture, the letters of which, according to their numerical value, make up the late. I have subjoined* some of them for the entertainment of the learned reader, from Bishop Beveridge's Arithmeticæ Chronologica. And indeed I am not certain whether owe not to observations of this kind, the first hint of this nethod, which I have carried so far, and which, doubtless, ike all other inventions, is still capable of further improvements.

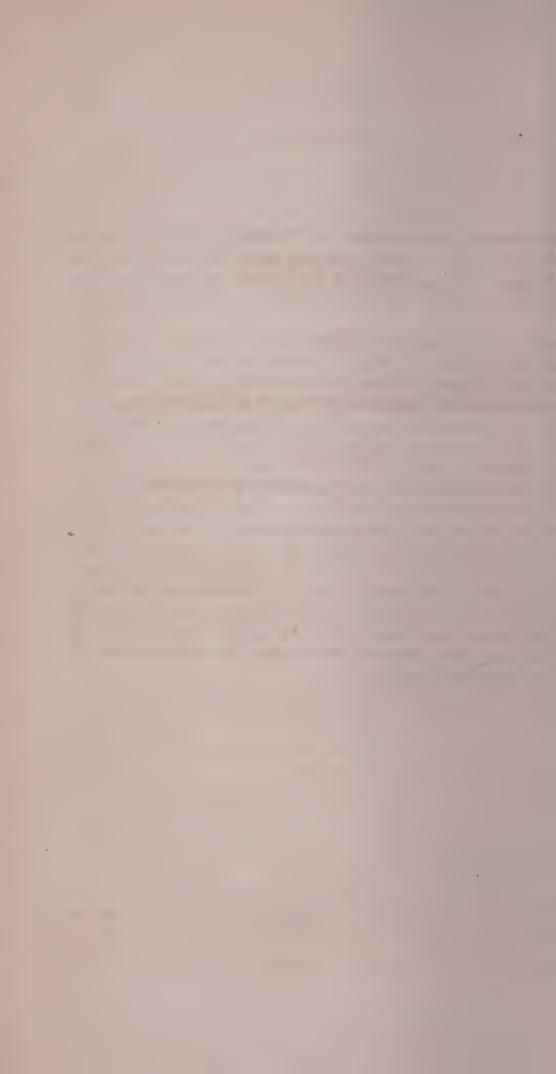
What is added of the miscellany kind, is a small part of what I had drawn up for my own use, and shews how easily his art may be applied to almost every part of learning. If

^{*} Sed non omittendum est, Judæos in librorum præcipue titulis, id annum quo impressi sunt indigitandum, literas numerales alio itque quem tradidimus ordine collocare. Enimvero vocem unam rel plures, easque vol seorsim, vel in sententia aliqua Biblica comprehensas excogitant, quarum literæ utut dispositæ numerum propositum valeant. Ex. gr. In Bibliis Sacris a Josepho Athia Amstelodami editis, tria occurrunt frontispicia, unum ad Penta euchum, ad Prophetas alterum, tertium ad Hagiographa. Primum mpressum dicitur שנת לשני עם ספר מהיר לפק Anno computi ninoris lingua mea est stylus scribæ prompti. Ps. xlv. Ubi voces עט ספר ut virgulis superne notatæ annum indigitant quo Pentateuchus impressus fuit. Quotus autem fuit annus computi Judaici minoris statim inveniatur, si omnes vocum instarum literæ ana cum numerico earum valore ita disponantur, y 70 🖰 9 5 60 80 7 200.=419. Ergo annus erat 419 juxta computum Judæorum minorem, de quo videris chronologicas nostras institutiones. Sic et prophetæ impressi dicuntur בשנת משא ני הזין לפק. Anno Onus vallis visionis computi minoris. Is. xxii. Ubi literæ משא sive Hagio- בי חזין valent 420. Frontispicium autem ad בתוכים grapha impressum est anno כתובים כאצבע אלהים scripta digito Dei. ubi primæ duæ literæ vocis בתובים annum eundem 420 significant. Nam'n valet 400, et ב 20. Hunc etiam in modum Talmud Basileæ impressum dicitur שנת פרות שלח לעמי Anno redemptionem misit populo suo. Ps. cxi. Ubi literæ vocis שלר valent 335. Denique Seder Tephilloth Hispaniensis, sive Judæorum Hispanorum liturgia ingeniosissime impressa, dicitur שנת הואת Hoc Anno, i. e. Anno 413, quem literæ הואת indigitant. Lib. i. c. 6. p. 211, 212. 4to. 1669.

upon the whole this attempt shall be found to contribute to the more speedy attainment of useful knowledge, and a give men of reading, instead of an imperfect and confused remembrance of what they read, a satisfactory certainty and exactness, as I cannot think the little time I have spen upon it ill bestowed in respect of my own improvement, so I shall be glad that it proves of as much benefit to others as I have found it to myself. Recommendatory character of GREY'S MEMORIA TECHNICA, written by the Rev. Mr. LAWSON, some years Head Master of a Foundation Grammar School, at Wolverhampton; given in the preface of a work published by him for the use of his pupils.

THE probable reasons why GREY'S MEMORIA TECHNICA has a been more generally received in Grammar Schools, where any separate regard is paid to History and Chronology, are, that it abounds with matter which has not a strict relation to classical authors, and hat it is extended to branches of knowledge, such as Geography, Astronomy, &c. where the necessity of the art is not so evident, and the difficulty of application much greater.

In defence of this art as a subsidiary aid to young persons in distory and Chronology, I will not say, that by the help of it the weakest memory may be able to retain what the strongest could not retain without it; but I have no scruple in recommending it to those who wish to avoid the necessity of perpetual recurrence ochronological maps of tables, and who prefer accuracy and fidelity o confused recollection and imperfect remembrance. It does not, ndeed confer a new faculty, but it teaches us to manage with skill the capacity of the memory, and contrives such helps as greatly assist its natural powers.



GREY'S MEMORIA TECHNICA.

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MEMORIA TECHNICA.

SECTION I.

HE principal part of this method is briefly this: to emember any thing in history, chronology, geography, c. a word is formed, the beginning whereof being the rst syllable or syllables of the thing sought, does, by equent repetition, of course draw after it the latter part, hich is so contrived as to give the answer. Thus, in istory, the Deluge happened in the year before Christ wo thousand three hundred and forty-eight; this is sigified by the word Deletok: Del standing for Deluge, nd etok for 2348. In astronomy, the diameter of the un (Solis Diameter) is eight hundred and twenty-two housand one hundred and forty-eight English miles; this signified by Sol-diked-áfei; Sol-di standing for the iameter of the sun, ked-áfei for 822,148; and so of the est, as will be shown more fully in their proper place. Iow these words come to signify these things, or conribute to the remembering them, is now to be shown.

The first thing to be done is to learn exactly the folowing series of vowels and consonants, which are to epresent the numerical figures, so as to be able, at pleaure, to form a technical word, which shall stand for any umber, or to resolve a word already formed into the

umber which it stands for:

B

Here a and b stand for 1, e and d for 2, i and t for and so on.

See also other signs at page 4.

These letters are assigned arbitrarily to the respecti figures, and may very easily be remembered. The fir five vowels in order naturally represent 1, 2, 3, 4, 5. T diphthong au, being composed of a 1 and u 5, stands f 6; oi for 7, being composed of o 4 and i 3; ou for being composed of o 4 and u 5. The diphthong ei w easily be remembered for eight, being the initials of t word. In like manner for the consonants, where t initials could conveniently be retained, they are made u of to signify the number; as t for three, f for four, ssix, and n for nine. The rest were assigned without a particular reason, unless that possibly p may be me easily remembered for 7 or septem, k for 8 or $\delta K_{\tau} \hat{\omega}$, d 2 or duo, b for 1, as being the first consonant, and l for being the Roman letter for 50, than any others that cou have been put in their places.

The reasons here given, as trifling as they are, me contribute to make the series more readily remembere and if there was no reason at all assigned, I believe will be granted that the representation of nine or the numerical figures by so many letters of the alphabet, c

be no great burthen to the memory.

The series, therefore, being perfectly learned, let treader proceed to exercise himself in the formation a resolution of words in this manner:

And as, in numeration of larger sums, it is usual point the figures at their proper periods of thousan millions, billions, &c. for the more easy reading of the as 172,102,795, one hundred and seventy-two millione hundred and two thousand seven hundred and nine five; so, in forming a word for a number consisting

any figures, the syllables may be so conveniently dided, as exactly to answer the end of pointing. Thus, the instance before us, which is the diameter of the bit of the earth in English miles, the technical word D-orb-Térboid-áze-poul; the beginning of the word, orb-Tér, standing for the diameter of the orbit of the rth (D-iameter Orbitæ Terræ), and the remaining rt of it, boid-áze-poul, for the number 172,102,795.

N. B. Always remember that the diphthongs are to be noidered but as one letter, or rather, as representing ly one figure. Note also, that y is to be pronounced w, for the more easily distinguishing it from i, as d=602, pronounce swid, typ=307, pronounce twip.

The reader will observe, that the same date or number by be signified by different words, according as vowels consonants are made choice of, to represent the figures to begin the words with, as,

325 tel, or idu, 154 buf, or blo, or alf, or alo, 93,451 ola, or out-fub, or ni-fla, or out-olb, &c.

This variety gives great room for choice, in the foration of words, of such terminations as by their uncomnness are most likely to be remembered, or by any cidental relation or allusion they may have to the thing ight. Thus the year of the world in which Æneas is pposed to have settled in Italy is 2824; but as this by be expressed either by ekef or deido, I choose rather join deido to Æneas, and make the technical word nedeido than Enekef, for a reason which I think is vious. Thus King John began his reign A. D. 199 ne thousand being understood to be added, as I shall ow hereafter); but as this may be expressed by anou, boun, or ann, I make choice of the last, for then it is t calling him Jann instead of John, and you have the ne almost in his name. Thus Inachus King of Argos gan his reign in the year before Christ 1856; with a all variation in the spelling, it is his name Inakus. ore instances of this kind see in page ix. of the Induction.

To go on with our art: it is further to be observed that z and y being made use of to represent the ciph where many ciphers meet together, as in 1000, 100000 &c. instead of a repetition of azyzyzy, which could neith be easily pronounced nor remembered, g stands for hidred, th for thousand and m for million. Thus ag will 100, ig 300, oug 900, &c.; ath 1000, oth 4000, othouth 4004, peg 7200, dig 2300, lath 51000, am 100000 azmoth 10,004,000, sumus 65,000,056, loum 59,000,000 &c. The solid content of the earth (TERRE MAGNITUG is two hundred and sixty-four thousand eight hundred a fifty-six millions of cubic miles; this is expressed by word Ter-magnitéso-klaum; Ter-magnit standing Terre Magnitudo; éso-klaum for 264,856,000,000, number of cubic miles.

It will be sometimes also of use to be able to set do a fraction, which may be done in the following mann let r be the separatrix between the numerator and denominator, the first coming before, the other after as $iro \frac{3}{4}$; $urp \frac{5}{7}$; $pourag \frac{700}{100}$ or 179; $north \frac{34}{1000}$ or 19. &c. Where the numerator is 1, or unit, it need not expressed, but begin the fraction with r, as $\frac{1}{4} re$, $\frac{1}{4} ro$, &c. So in decimals, $101 \text{ or } \frac{1}{100}$, $101 \text{ or } \frac{1}{100}$, $101 \text{ or } \frac{1}{100}$.

Thus I have given the reader a general view of principal part of this method, and now proceed to sh how I have applied it to history, geography, astronon and other parts of useful learning; and, having explain a line or two in each, leave the rest to his own indus and sagacity; and though the geographical parts are n in this edition, completely modernized, according to present divisions of the earth, neither are the recent of coveries in astronomy noticed here; yet it is hoped to sufficient is done to answer the student's purpose.

SECTION II.

THE APPLICATION OF THIS ART TO CHRONOLOGY AND HISTORY.

HE ages of the world before our Saviour's time are, by aronologers, generally divided into six: the first, from the creation to the deluge; the second, from the deluge the call of Abraham, &c. according to the following eriods:

		Christ.
The Creation of the world	•	4004
The universal Deluge		2348
The call of ABraham		
Exodus, or the departure of the Israelites fr		
Egypt		1491
The foundation of Solomon's Temple		
CYRus, or the end of the captivity		
The birth of Christ.		
A II O OII OI O III IN O		

All this is expressed in one line belonging to Table I., follows:

Crothf, Déletok, Abaneb, Exáfna, Témbybe, Cyruts.

r denotes the Creation, othf 4004, Del the Deluge, b the calling of Abraham, Ex Exodus, Tem the Temple, and Cyr Cyrus. The technical endings of each represent the respective year, according to the rules already laid own.

I shall explain two lines more.

Nésfih,

In Mar Fudiala Co Vi-Just-Olut Co Ag-Co-Po-

hál-Le-Mar-Eudíola, Co-Vi-Júst-Olut, C-Ag-Co-Po-

Monseiz.

These two lines are a short history of the first General Councils; and every syllable has its disti signification. The first represents the place where was held; the second shows who was pope at that tin the third under what emperor; the fourth against w heretic; the fifth in what year of our Lord. Thus first word is Nic-Sil-Con-Aritel; Nic denotes the cou cil of Nice, Sil pope Silvester, Con the emperor Co stantine, Ari the heretic ARIus, tel the year 325. I second word is Co-Da-Thé-Mateib; Co denotes council of Constantinople, Da pope Damasus, Thé emperor Theodosius, Ma the Macedonians, teib 38 The third is Eph-Ce-The-Nésfib; Eph the council EPHesus, Ce pope Celestine, The the emperor Theory sius, junior, Nes the Nestorians, fib the year 431. T fourth is Chál-Le-Mar-Eudíola; Chál the council CHALCEdon, Le pope LEO, Mar the emperor MARCIA Eudí the errors of Eutyches and Dioscorus, ola the ye The fifth is Co-Vi-Just-Olut; Co stands for Co stantinople, Vi pope Vigilius, Just the emperor Ju Tinian, O the errors of O-rigen, lut the year 553. T sixth is C-Ag-Co-Po-Monseiz; C stands again for C-c stantinople, Ag for pope Agatho, Co-Po the emper Constantine Pogonatus, Mon the Monothelites, seiz t vear 680.

By this specimen the reader will be able to judge where is to expect from the following Essay, and what it we cost him to make himself master of it. I would by means have him discouraged at the difficulty which, first view, he may apprehend there is, in charging hemory with so many harsh and barbarous lines; it though they may appear to be so to a person unacquaint with them, and, as such, difficult to be remembered, ye when frequent repetition has made them familiar, where can be more easy than to supply the remaining part of word which you are prompted with the beginning of? a for instance, to complete Cr—Del—Ab—Ex—Tem-Cyr—with their technical endings, and make them

into the following line, already explained:

Crothf, Déletok, Abaneb, Exáfna, Témbybe, Cyruts.

I have only further to desire the reader to take notice, nat, for his greater ease, that part of the memorial words rhich represents the numbers or dates, is distinguished by talic characters; that part which is roman answers to the mall capitals in the Tables.

TABLE I.

GENERAL EPOCHAS AND ÆRAS, ECCLESIASTICAL AND CIVIL.
Bef. Christ.
he Creation of the world—Crothf 4004
The universal Deluge—Déletok
'he call of Abraham—Abaneb 1921
Exodus of the Israelites—Exáfna 1491
The foundation of Solomon's Temple—Témbybe . 1012
YRus, or the end of the captivity—Cyruts 536
The birth of Christ.
The destruction of Troy—Tróyabeit 1183
he first Olympiad—Olympois
The first Olympiad—Olympois
Era of Nabonassar—Ær-Nabonaspop 747
The Philippic æra, or the death of Alexander—
Phíl ido
The æra of CONTRACTS, or of the Seleucidæ, called
in the book of Maccabees the æra of the kingdom
of the Greeks—Contractad
Anno Domini,
The Dioclesian æra, or the æra of Martyrs-
Diocleseko
The æra of the Hegira, or flight of MAHOMet-
Máhom $audd$ 622
The æra of YEzdegird, or the Persian æra—Yezsid 632
The Memorial Lines.

Crothf, Déletok, Abaneb, Exáfna, Témbybe, Cyruts. Tróyabeit, Olympois, Romput & Er-Nabonáspop. Phílido, Contráctad,—Diocléseko, Máhomaudd, Yézsida Though I have no where (except in the ages of t patriarchs before Abraham) made use of any other æ than that of the years before and after Christ, becau those being known, it is easy to find the corresponde year of any other æra, according to the common rullaid down in books of chronology, which I shall suppose the reader to be acquainted with; yet, in the more em nent epochas, that he may be able, at first glance, to have a notion of the time of any thing or person which he may meet with in authors making use of the Julian period and the æra of the creation of the world, I have also added them in the following Table.

TABLE II.

the Caretine Call	J	ful.	Period.	A	n. Mui
The CREation of the world	•	•	710	Property.	
The universal Deluge	٠,	•	2366		1650
The call of ABraham.		•	2793		208
Exodus of the Israelites. The foundation of Salary of S	•				
The foundation of Solomon's Templ	е	٠	3702		
Cyrus, or the end of the captivity The destruction of Troy	•		4178		
The first Olympiad	•		3531		
The building of Rome	•	•	3938		
The birth of Christ	•	•	3961	_	3251
The birth of Christ	•	•	4714	—	4004

The Memorial Lines.

Créppaz, Delpétsau. Démasus, Abmezki, Abpépni, Expidet, Exmélat, Tempipze, Temménne, Cymúntosk, Cyrpoboik, Troypílta, Trómekeb, Olympinik, Olmtéek, Rompinsa, Rómidub, Chrismúndothf, Chrisperifoibo.

EXPLANATION.

The first syllable points out the epocha as before; the addition of p or peri denotes that it is the year of the Julian period; the addition of m or mund, that it is the year of the world.

TABLE III.

CHRONOLOGICAL AND HISTORICAL MISCELLANIES BEFORE CHRIST.

Bef. Chr	
uilding of the tower of Babel—Bábedit 22	33
Izraim settles in Egypt—Mizdakk 21	88
estruction of Sodom and Gomorrah—Sódakoup. 18	97
Jeath of Joseph—Joséphasil 16	35
Nnus S-abbaticus, or the first Sabbatical year—	
An-Safff	44
AUL first King of Israel—Sauláznu 10	95
EROboam, or the defection of the ten tribes—	
Jéronoil 9	75
Jéronoil	
extinguishes the kingdom of Israel—Salmpeb. 7	21
lolofernes invadeth Judæa, and is slain by	
Judith—Holoféslu	55
INEveh destroyed by the Medes and Babylonians	
-Ninévsad	12
EHOIAkim taken prisoner by Nebuchadnezzar,	
from whence began the 70 years captivity of the	
Jews – Jehóiasys 6	06
EDekiah sent in chains to Babylon, and Jerusalem	
utterly destroyed by Nebuzaradan, captain of the	
guard to Nebuchadnezzar; the end of the king-	
	88
FAT IN CELL 1: 1 C. Tanada Tanada A (OPA)	
[N.B. The kingdom of Israel-Isrelo The kingdom of Judah-Judosk] lasted {254} year	s.]
he Babylonians having revolted from Darius	
Hystaspes, are beseiged by him, and Babylon	
taken, after a siege of 20 months, by the strata-	
gem of Zopyrus—Bab-Dár-Hylas 5	16
ARDis burnt by the Athenians, in confederacy	
with the Ionians, which gave the first rise to the	
	00

	Chris
Zoroastres appears at the Persian court—Zoroafne	49
Esther made concubine to Ahasuerus—Esthosa.	46
The feast of Purim instituted in memory of the	C
defeat of Haman's plot for the destruction of the	
Jews—Purolt	45
Ezra sent to be governor of Judea—Ezrolk	45
NEHEMIAh sent governor to Judæa, rebuilds the	
walls of Jerusalem—Nehemiffu	44
The temple on Mount GERIZIM began to be built	1
by Manasseh—Gerizózei	40
The translation of the Septuagint-Septepoi	27
Judas M-accabæus—Ju-Mass	166

Bábedit & Mizdakk, Sódakoup, Joséphasil, An-Safff, Sauláznu, Jéronoil, Salmpeb, Holoféslu, Ninévsad, Jehoíasys, Zedleik, [duravit Isrelo, Judosk], Bab-Dár-Hylas, Sardug, Zoroafne, Esthosa, Purolt, Ezrolk, Nehemiffu, Gerizózei, Septepoi, Ju-Mass.

TABLE IV.

CHRONOLOGICAL AND HISTORICAL MISCELLANIES AFTER CHRIST.

Anno I	omini
Dispersio Judæorum, or the destruction of Jeru-	
salem by Titus—Dis-Judpa	71
Lucius of Britain, the first Christian king—Lúcibup	157
ZENOBia, Queen of Palmyra, led in triumph to	
Rome by Aurelian—Zenobdoid	272
ECCLESIZE PAX, or the establishment of Christi-	
anity by Constantine—Ecclesi-Paxtad	312
St. Alban the British Protomartyr—Albantyt .	303
CLovis the first Christian King of France—Clóvoka	481
LINGUA LATINA, or the Latin tongue ceases to be	
commonly spoken in Italy—Ling-Latleip	587

Anno D	omini.
Augustine the monk, sent by Gregory the Great	
from Rome, converts ETHELbert King of Kent	
-Aug-Ethelúngu	596
CHARLEMagne declared Emperor of the West—	990
Charlingia .	000
Charlmeig	800
The CRoisade, or Holy War—Croisáznu	
Hypernia, or the conquest of Ireland—Hybaboid.	1172
OTToman the founder of the present Turkish empire	
-Ottadoup	1297
The Mariner's Compass found out—Compatze . 1	
The Papal seat removed to Avignon—Pap-Avatyl	1305
Walter Lollard, with many of his followers, burnt	
in Austria, for opposing the Romish superstitions	
-Lolatub	1351
GUNPowder invented in Germany by a monk-	
Gunpátfo	1344
TAMerlane the Tartar overcomes BAJazet the Turk,	
and puts him in an iron cage. (The Great Mogul	
	1200
	1399
SCANDERberg, Prince of Epirus, famous for his	1.440
victories over the Turks—Scanderboft	
	1449
CONSTANTINOPLE taken by the Turks, and an end	
	1453
Christopher Columbus, a native of Genoa, discovers	
Cuba and Hispaniola—Columbont	1493
N. B. The southern continent of America was discov	ered

V. B. The southern continent of America was discovered about four years after by Americus Vespusius, from whom it took its name.

The Memorial Lines.

Dis-Judpa, Lúcibup, Zenobdoid, Ecclesi-Paxtad, Albantyt, Clóvoka, Ling-Latleip, Aug-Ethelúnau, Charlmeig, Croisáznu, Hybaboid, Ottadoup, Compatze, Pap-Avatyl, Lolatub, Gunpátfo, Tam-Bajatóun (Mog), Scanderboft, Prinafon, Constantinobóli, Columbont.

TABLE V.

THE REGAL TABLE OF ENGLAND SINCE THE CONQUEST, AND
SOME OF THE MOST REMARKABLE PRINCES BEFORE IT.
Bef. Christ
CASIBELaunus chosen chief commander by the
Britons against the invasion of Julius Cæsar—
Casibelud
Queen Boadicea, the British heroine, being abused
by the Romans, raises an army and kills 7000-
Bóadaup 67
Vortigern invited the Saxons to the assistance of
the Britons against the Scots and Picts—Vor-
tig fos
HENGist, the Saxon, erected the kingdom of Kent,
the first of the heptarchy—Heng ful 455
King ARTHUR, famous for his powerful resistance
and victories over the Saxons—Arthlaf 514
EGBErt, who reduced the heptarchy, and was first
crowned sole monarch of England-Egbekek . 828
ALFREd, who founded the university of Oxford-
Alfrékpe
Edward the Confessor—Confésfe 1042
William the Conqueror—Wil-consau . Oct. 14. 1066
William Rufus-Rufkoi Sept. 9 . 1087
HENRY L.—Henrag Aug. 2 1100
STEPHen—Steph bil $Dec. 2$. 1135
Henry the Second—Hen-sécbut Oct. 25 . 1154
Richard 1.—Richein July 6 . 1189
J-ohn—Jann
Henry the Third—He-thdas Oct. 19. 1216
Edward I.—Eddoid Nov. 16 1272
Edvardus Secundus—Ed-setyp July 7 . 1307
Education Educat
Richardus Secundus-Ri-setóip June 21 1377
Henry the Fourth-He-fotoun Sept. 20 1399

	Anno Domini.
Henry the Fifth—He-fifad	. Mar. 20 1412
HENry the Sixth—Hén-sifed	. Aug. 31 1422
Edwardus Quartus—Ed-quarfauz .	. Mar. 4 . 1460
E-dward the Fifth) F. 6 Pobl	§ April 9. 1483
E-dward the Fifth R-ichard III } —E-fi-Rokt .	June 22 1483
Henricus Septimus—Hen-sépfeil .	. Aug. 22 1485
Henricus Octavus—Hen-oc <i>lyn</i>	. April 22 1509
Edwardus Sextus—Ed-sexlos	. Jan. 28. 1546
$MARY-Marylut \dots \dots$. July 6 . 1553
Elizabeth—Elzluk	. Nov. 17. 1558
James I.—Jamsyd	. Mar. 24 1602
Carolus Primus—Caro-primsel	. Mar. 27 1625
Carolus Secundus—Car-secsok	. Jan. 30. 1648
James II.—Jamseif	. Feb. 6 . 1684
William and Mary—Wilseik	. Feb. 13. 1688
Anne—Anpyb	. Mar. 8 . 1701
George I.—Gëopbo	. Aug. 1 . 1714
George II.—Gëo-sepdoi	. June 11 1727
George III.—Gëo-thpauz	. Oct. 25 . 1760
George IV.—Gëo-quarkez	. Jan. 29. 1820

Casibelud, Bóadaup, Vortig fos, Heng ful & Arthlaf, Egbekek, Alfrékpe, Canbau, Confés fe.

Wil-consau, Rufkoi, Henrag, ——
Stephbil & Hen-sécbuf, Ricbein, Jann, He-thdas & Eddoid, Ed-setyp, Ed-tertes, Ri-setóip, He-fotoun, He-fifádque, Hén-sifed, Ed quarfauz, E-fi Rokt, Hen-sépfeil, Hen-oclyn, Ed-sexlos, Marylut, Elzluk, Jamsyd, Caro-primsel, Car-secsok, Jamseif, Wilseik, Anpyb, Gëopbo—pdoi—pauz—kez.

N. B. After Canute inclusive, one thousand is to be added to each. It was thought unnecessary to express it, it being a thing in which it is impossible that any one should mistake.

If it be desired to remember in what month, and day of the month, each king began his reign, it may be done

by the following lines:

Wil-tbó-sou-fat, Steph-de, Jam-chef-fau, Ri-ls-jeb-ec El-nap,

Hen-gé-tel-an-sez-chez-gib-ged-ped, Geor-ga-jab, Anchei,

Car-chep-riz, Ma-ls, Jo-ps, Ed-nás-loi-rél-cho-pou-rekque

EXPLANATION.

The *italic* letters represent the day of the month; the letter immediately preceding represents the month itself restanding for January, f for February, ch for Marcher p for April, m for May, j for June, l for July, g for August, s for September, t for October, n for November, and for December.

Thus Steph-de, Steph King Stephen, de Dec. 2. El-naj El Elizabeth, nap Nov. 17. In words of three or mor syllables, the first syllable stands for all the kings of the same name, and the following syllables in order to answe to the first, second, third, &c. of that name. So Jan chef-fau; Jam denotes James I. & II., chef (viz. March 24 belongs to James I., and fau (viz. Feb. 6) to James Il So Ri-ls-jeb-ed; Ri denotes all the Richards, ls (viz. July 6) belongs to Richard I., jeb (viz. June 21) to Richard II., and ed (viz. 22 of the same month) to Richard III.

If this be thought either too difficult or too minute, the reader may pass it over.

TABLE VI.

CHRONOLOGICAL MISCELLANIES SINCE THE CONQUEST.

Anno L)omin
Jerusalem regained from the Turks and Godfrey	1
of Bulloigne made king of it—God-Bulnou.	109
The Inquisition first erected against the Albigenses	
—Inquisded	122
The Confirmation of Magna CHARTA by King	
Henry III Charteel.	199

Wat Tyler's rebellion suppressed—Tylika	
Jack CADE's rebellion suppressed—Tyllra	
Jack CADE's rebellion suppressed—Cadefly 1450	
Martin Luther began to preach in Germany against	
indulgences, and other errors of the Church of	
Rome—Mar-Luthlap	
TROTESTANTS first began on occasion	
of the protestation the Lutherans made against	
the decree of the chamber of Spire against them	
- Frotalen	
the omale Aluan league, or agreement made he	
Ween the Protestants of Germany for their mutual	
defence at Smalcald—Smalcalloz	
The Council of TRENt began DEC. 13—Tren-decat-	
auu.	
The Massacre of Protestants at Paris - Mas-	
Paraloid	
The United P-rovinces, under the protection of	
William, Prince of Orange, throw off the Spanish	
yoke—Un-Ploin	
The Spanish Invasion—Sp-invukk	
The Gunpowner treason Powder!	
The Gunpowder treason—Powdsyl	
The famous rebellion at Naples, on occasion of the grievous excises, headed by MASANIELLO	
6 The size of t	
Masanielsop	
Dliver Cromwell usurped the government of Eng-	
land, under the name of Protector—Cromsli 1653	
The island of JAMAICa in America taken by the	
English—Jamaicaull	
Jacom well Mors—Crom-morsur. 1658	
FIBRAltar taken (capta) by the English—Gibrapzo 1704	
The Memorial Lines.	
God-Bulnou, Inquisded, Charteel, Tylíka, Cadefly,	
Mar-Luthlap, Protalen, Smalcalloz, Tren-decat-alfu.	
Mas-Paraloid, Un-Ploin, Sp-invukk, Powdsyl, Masa-	
nielsop,	
Fromsli, Jamaicaull, Crom-morsuk, capta Gibrapzo.	
N. B. A thousand is to be added as above, where it is	
ot expressed.	

ot expressed.

TABLE VII.

THE PATRIARCHS BEFORE AND AFTER THE FLOOR

						F	n Mun.		- 6
ADam—Adniz	•	•		•	•	•	1		930
Seth—Setháty-nad .				•	•		130	_	912
Enos-Endil-nyl	•				•	•	235		905
Cainan — Caitel-naz .				•			325		910
MAHALAleel—Mahalatou					•	•	395		895
77 7 77 / 7	•			•	•	•	460		962
Enoch—Enchséd-isu.				•	•	•	622		365
METHUSelah—Methuseip				ě	•		687		969
Lamech—Lakoif-poip.					•		874		777
Noah—Noachazús-nuz							1056		4 .
SHEM—Shembulk-aug.					•	•	1558		67
ARphaxad—Arasleí-fik							1658		
SALah—Salasout-ott .					•		1693		
HEBer—Hebaped-óso.		•	•	•	•	•	1722		
Pelapúp-etou.		•		•	•	•	1757		_
REU—Reuapeip-din .	•		•		•	•	1787		_
Serug—Serakán-diz		•	•	•	•	•	1819		
NAHOR—Nahorakón-bok			•		•	•	1849		
Access .		•		4	•	٠			4
TERah — Terakoik-dyl .		•		•	•	•	1878		
ABraham—Abezyk-boil			•	•	•	•	2008		
Isaac—Isebyk-beiz		•	•	•	•	•	2108		4
JACOB—Jácobebaúk-bop	•	•	•	•	•	•	2168		147

The Memorial Lines.

Adniz, Setháty-nad, ——
—— Endil-nyl, Caitel-naz, Mahalatoul-koul,
Jarósy-naud, ——
Enchséd-isu, Methuseíp-naun, Lakoíf-poip, Noachazús-

Shembulk-aug, Arasleí-fik, Salasout-ott, Hebaped-óso, Pelapúp-etou, Reuapeíp-din, Serakán-diz, Nahorakón-bok, Terakoík-dyl, Abezyk-boil, Isebyk-beíz, Jácobebaúk-bop.

TABLE VIII.

IE PATRIARCHS, & CCORDING TO THEIR YEARS BEFORE CHRIST.

									E	sef.	Christ.
етн—Séth <i>ikoif</i> .	•	•	•	•	•	•	•	•	bor	n	3874
Nos s.—Enosipaun	•	•	•	•	•	•	•	•	•		3769
Alnan s.—Caitspou		•	•	•		•	•	•		•	3679
AHALAleel s.—Mah	ala	atsy	n	•					•		3609
Red s.—Jarilof.	•										3544
Noch s.—Enchtike									•		3382
ETHUSelah s.—Met									•		3317
Amech s.—Lamibiz		•	4								3130
oah s.—Noenok.		•			•						2948
0.3 00	•				•						2446
RPHaxad s.—Arphe					•						2346
Lah's.—Saldibb	000		•			•					2311
EBer s.—Hébdeka	•			•	•						2281
ELEG s.—Pelégedop		•									2247
											2217
4		•									
ERUG s.—Serugdaku		•			•						2185
AHOR s.—Nahrdall				•	•	•	•	•			2155
Erah s.—Terebes		•		•	•	•	•	• 1			2126
BRAham s.—Abrám	an	ous	•	•	•	•	•				1996
	•	•	•	•	•	•	1 4	43	• 1		1896
	•	•	•	•	•	•	•	•	•	•	1837
vi s.— Lévapus .	•	•	•	•	•	•		•			1756
4.12								*			

The reader is desired to take notice, that in this and e following tables, (where it could be done consistently the intended brevity,) the relation which every permote to him who immediately goes before, is signified a single letter; s standing for son or sister, b for brother, for nephew or niece, u for uncle, g for grandson, m for other. So the s after Enos shows that he was the son Seth and so on.

Séthikoif, —— Enosipaun, Caitspou, Mahalatsyn, Jarilof, Enchtike, Methusitap, Lamibiz, Noenok, Sheffs, Arphetos, Saldib Hébdeka, Pelégedop, Reúedap, Serúgdaku, Nahrdall, Terebes, Abrámanous, Isakous, Jakip, Levapusque.

TABLE IX.

THE JUDGES OF ISRAEL, FROM THE DEATH OF MOSES T SAMUEL.

	_											Chris
Moses M-oritur ((dies) –	-M	OS-1	nol	a		•	•			145
Josнua—Jóshfol	•	•	•	•	•	•	•		•		•	14
Oтнoniel—Othóz	ા	•			•		•					140
EHUd—Ehutel.	•	•	•	•	•				•		•	132
DEBorah—Debo	deil		•		•	٤			•			128
Gideon—Gidol.		•		•					•	•	٠	12
A Bimelech—Abn	nets	•	e	•	cu		•	•				12:
Thola—Thlett.	•	•	•			•		•	•			12:
JAIr—Jaïdaz .	•	•	•			•	•			•		12]
JEPHTha—Jepht	akk	•	•	•				•				118
Ibzan—Ibzâke.	•	•	•				•	•		•		118
Elon—Eloboil.	•		•	•		•		•		•	•	111
ABDON—Abdon	aso	•	•	•	•	•			•	•	•	11(
Eli—Elíbup	•					•			•			118
Samuel—Sambar) .	•	•	•	•			•				111

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Mos-mola, Jóshfol, Othózu, Ehutel, Debodeil, Gide Abmets,

Thlett, Jaïdaz, Jephtakk, Ibzáke, Eloboil & Elíbup, Abdonaso, Sambap, —

N. B. One thousand is to be added. The dates affixed to the Judges before Abimelech are supposed to relate not to the beginning of their presiding over Israel, but the end of the rest given by them.—Vide the preface Petavii Rationarium.

975

954

953

930

929

TABLE X.

KINGS OF ISRAEL AND JUDAH.

KINGS OF ALL ISRAEL.

Bef. Christ. SAUL—Saulaznu 1095 David-Davazul 1055 Solomon s.—Solomázal . . . 1015 The Defection of the Ten Tribes KINGS OF JUDAH. Rehoboam s.—Rehonoil . 975 ABIjam s.—Abínup 957 955 914 Jеноват s.— --horkein. 889 AHAZIAh s.-Ahazikku 885 884 878 Amaziah s.—Amazkin 839 Uzziah or Azariah s.--Uz-Azarikby . 810 JOTHam s.—Jothpuk. 758 AHAZ s.—Aházpod . . 742 Hezekiah s.—Hezepep . . 727 Manasseh s.-Mansout . 693 Amon s.—Amónsot . . 643 Josiah s.—Josiasoz 640 Jeholakim s.— --hoiakimsyn. . . 609 Jeholakin s.— --hoiakaug. . . . Zedekilnei 600 598 INGS OF ISRAEL. JEROBoam son of Nebat-Jerobnoil .

N-adab s.—Nnuf.

BAAsha-Baanut .

Elah s.—Elniz . .

Zimri, Tibni, and Omri—Zim-Tibnen . .

									Bef.	Christ.
Omri alone-Omnel .	•	•	•	•	•	•	•	•	•	925
AHAB s.—Ahábnak .	•	•	•	•	•	•	•	•	•	918
AHAZIAh—Ahazikoup									•	897
Joram b.—Jorknau.						•			•	896
JEHU-Jehukko										884
JEHOAHAZ s.—Jehoaha										856
Jеноаsн s.—hoashki										839
Jeroboam II. s.—Jeros										
ZACHARIAh s Zachar									•	773
SHALLUM s. of Jabesh-										
MENAhem s. of Gadi-			4 4			•				
PEKAIah s.—Pekaipsa		- 4	-			•				
Pekah-Pekapun										
Hosea s. of Elah—Hos										

Saulaznu, Davazul, Solomázal, Reho-Jerobnoil.

Abínup, Asanul, --hosaphanbo, --horkein, Ahazikku, Athlikko, --hoaashkoik, Amazkin, Uz-Azarikby, Jothpuk & Aházpod, Hezepep, Mansóut & Amónsot, Josiasoz, --hoiakimsyn, --hoiakaug, Zedekilnei.

Nnuf, Baanut, Elniz, Zim-Tibnen, Omnel, Ahábnak, Ahazikoup, Jorknau, Jehukko, Jehoahaklau, --hoashkin, Jerosekdu, Zacharappt, Shalluppe, Menappe, Pekaipsa, Pekapun, Hospiz. ——

N. B. The break before some of the words denotes that Je is wanting, as --hosaphanbo for Jehosaphanbo, --horkein for Jehorkein, &c.

TABLE XI.

THE PROPHETS.

							Bet.	Christ.
Jonas prophesied against			ve	h—	Jon <i>k≈e</i>	•	•	802
Joel prophesied—Joeig	•	•	•	•		•	•	800

CHRONOLOGICA ET HISTORICA.	21
Bef. C	hrist.
A mos prophesied against King Jeroboam—Amneip	787
Hosea prophesied against Israel—Hosephu	785
Isaiah began to prophesy—Ispauz	760
NAHUm prophesied against Nineveh—Náhupuk.	75 8
Micah prophesied against Judah and Jerusalem—	
Micput	753
Jeremiah began to prophesy—Jersta	631
Zephaniah prophesied—Zephautz	630
HABAkkuk prophesied—Habasyn	609
Ezekiel in captivity had his first vision—Ezeloul.	595
Obabiliah prophesied against the Edomites—Oba-	
$\mathrm{di}\mathit{lkoi}$	587
D-aniel had his vision of the four empires—Dull.	555
HAGgai prophesied—Haglez	520
ZECHARiah prophesied—Zecharúdz	520
MALACHI wrote his book, which was the end of	
vision and prophecy—Malachinp	397
The Memorial Lines.	
Jonkze, Joeig, Ampeip, Hosepku, Ispauz, Náhupuk Micput, Jersta, Zephautz, Habasyn, Ezeloul, Obadi Dull, Haglez, Zecharúdz, Malachinp.——	
TABLE XII.	
TABLE AII.	
KINGS OF ASSYRIA AND BABYLON.	
KINGS OF ASSYRIA AFTER THE DISSOLUTION OF THE ANCIENT ASS	YRIAN
EMPIRE UPON THE DEATH OF SARDANAPALUS.	Cl'. A
Ann Acce Arbanan	Christ.
SALManasar s Salmaeb	798
ARBACES—Arbapop	714
Esarhadon third s.—Esarhadopzau	706
ESAKHADUOH UHIU S.—ESAHAUOPSuu	100
KINGS OF BABYLON.	
Belesis—Belespop	747
N: N. J: C	734

-							E	Bef.	Chris
CHInzirus.									MO
Porus \ - Chi-Po-Jug	pes	•	•	•	•	•	•	•	12
Jugaus .) Mardok Empadus—Empea									72
Arkianus—Arkpyn	•	•	•	•	•	•	•	•	70
Belibus—Belibupze.			•	•	•	•	•		70
APRONadius—Apronaunn									69
REGIBILUS—Regibsni									69
MESessimordacus—Messoud	•	•		•	•	•	•	•	69

After his death followed an interregnum of eight years of which Esarhaddon, King of Assyria, taking the advantage, seized Babylon, and adding it to his former empire thenceforth reigned over both for thirteen years.

KINGS OF ASSYRIA AND BABYLON JOINTLY, THE ROYAL SEAT SOME TIMES AT NINEVEH, AND SOMETIMES AT BABYLON.

			ef. Christ
Esarhaddon, called in Ptolemy's	Canon	ASSAF	-3
Addinus—Assarshy			
SAosduchinus s.—Saóssaup .			. 66
CHYNiladanus—Chynsop			. 64

Chyniladanus having made himself despicable to hi people, Nabopollasar, general of his army, set up for himself; and being a Babylonian by birth, made use o his interest there to seize that part of the Assyrian empire and reigned king of Babylon twenty-one years. the fourteenth year of his reign, having made an affinity with Astyages, the eldest son of Cyaxares, by the marriage of his son Nebuchadnezzar with Amyitis, the daughter of Astyages, entered into a confederacy with him against the Assyrians, and thereon joining their forces together, they besieged Nineveh; and after having taken the place, and slain Saracus the king, (who was either the successor of Chyniladanus, or he himself under another name,) to gratify the Medes, they utterly destroyed that great and ancient city, and from that time Babylon became the sole metropolis of the Assyrian empire. Vide Prideaux's Connexion, Part I. Book 1.

KINGS OF BABYLON.

~							I	Bef.	Christ.
N	ABOPOLlasarNabopolsel	•	•		•	•			625
V	EBuchadnezzar s.—Nebsys	•	•		•				606
j.	VILmerodoch s.—Evillaub.	•	•	•	•				561
1	ERIGlissar b. in law—Nerigl	un		•	•			٠	559
Į	Laborosoarchod s	. 7		NT.	1 . 7	7			~ ~ ~
1	Laborosoarchod s	h 🕻	-	in a	DOL	ul	•	•	555
)	ARius the MEDe, i.e. Cyaxar	es,	un	cle	of	Cv	rus	5.	
	to whom Cyrus allowed the	title	e of	al	l b	is (con) -	
	quests as long as he lived—D	ar-	Me	dli	k				538
3	y his taking Babylon ended	the	В	AB	YLO	nis	h	em	pire.
	after it had continued 209 ye	ears	3	Re	g-I	Bab	yle	2201	l.
							-		

The Memorial Lines.

ASSYRIA.

rbapop & Salmpek, Sennachoibo, Esarhadopzau.

BABYLON.

elespop, Nadpif, Chi-Po-Jugpes, Empea, Arkpyn, elibupze, Apronaunn, Regibsni, Messoud,—Assarsky, aóssaup, Chynsop,—Nabopolsel, Nebsys, Evillaub, Ieriglun, Nabolul, Dar-Medlik, Reg-Babylezou.

TABLE XIII.

KINGS OF EGYPT, MEDIA, AND PERSIA.

KINGS OF EGYPT.†

	·		~p		1	Bef.	Christ.
ABACOn	the Æthiopian—Sabacopde	oi	•	٠	•	•	727
Evechus	s.— $Sevpan$	•	٠	٠	•	٠	719

^{*} For the reason why Laborosourchod is not named in Ptolemy's anon, see Prideaux's Connexion, Part I. Book 2.

⁺ Of the ancient Kings of Egypt, from Mizraim or Menes, we are little else but the names, or fabulous accounts.

Confederacy of the 12 Princes—Prin-be-sket Psammitchus—Psammitspy	TIRHAKah, last of the Æthiopians—Tirhapyl . 7 Confederacy of the 12 Princes—Prin-bé-skei . 6 Psammitichus—Psammitspy										
Confederacy of the 12 Princes—Prin-be-sket Psammitchus—Psammitspy	Confederacy of the 12 Princes—Prin-be-sket. Psammitichus—Psammitspy									ef. C	10
Confederacy of the 12 Princes—Prin-be-sket Psammitchus—Psammitspy	Confederacy of the 12 Princes—Prin-be-sket. Psammitichus—Psammitspy	TIRHAkah, last of the Æthi	opi	ans	3	Tir	haj:	yl	•	•	
PSAMMITICHUS—PSammitspy Necus s.—Necussas PSAMMis s.—Psammaug Apries s.—Aprunf Amasis—Amaslaun PSAMMINITUS s. who was conquered by Cambyses, son of Cyrus—Psaminitlel KINGS OF MEDIA AFTER THE REVOLT OF THE MEDES FROM SENNACHERIE. DEJOCES—Dejopzou PHRAOTES s.—Phraslau CYAXAres s.—Cyaxasif Astyages s.—Astuno *Cyaxares II.—Cy-d-lun KINGS OF PERSIA. CYRUS—Cyruts CAMBYSES s.—Cambylen †Oropastes Magus POARius s. of Hystapes Hystalda *Cyaxares II.—Cy-d-lun KINGS OF PERSIA *Cyrus—Cyruts CAMBYSES s.—Cambylen †Oropastes Magus POARius s. of Hystapes Hystalda *Cyaxares II. S. slain by Attaxerxes Longimanus third s.—Longfauf XERXES II. s. slain by Ochus bastard b. commonly *Cyard-Sog-Dar-Ochus bastard b. commonly	PSAMMITICHUS—PSAMMITSPY NECUS S.—Necussas PSAMMIS S.—Psammaug APRIES S.—Aprunf AMASIS—Amaslaun PSAMMINITUS S. who was conquered by Cambyses, son of Cyrus—Psaminitlel KINGS OF MEDIA AFTER THE REVOLT OF THE MEDES FROM SENNACHERIE. DEJOCES—Dejopzou PHRAORTES S.—Phraslau CYAXARES S.—Cyaxasif ASTYAGES S.—Astuno *CYAXARES II.—Cy-d-lun KINGS OF PERSIA. CYRUS—Cyruts CAMBYSES S.—Cambylen †OROpastes MAGUS POROPASTES MAGUS TOROPASTES	Confederacy of the 12 PRIM	vce	S	-Pr	1n-6)e-8	Ret	•	•	6
NECUS s.—Necussas	PSAMMIS s.—Psammaug APRIES s.—Aprunf AMASIS—Amaslaun PSAMMINITUS s. who was conquered by Cambyses, son of Cyrus—Psaminitlel KINGS OF MEDIA AFTER THE REVOLT OF THE MEDES FROM SENNACHERIE. DEJOCES—Dejopzou PHRAORTES s.—Phraslau CYAXARES s.—Cyaxasif Astyages s.—Astuno *Cyaxares II.—Cy-d-lun KINGS OF PERSIA. CYRUS—Cyruts CAMBYSES s.—Cambylen †OROpastes MAGUS POROPastes MAGUS TOROPASTES MAGUS T	Da Anarrichus Peammite	27/								6
PSAMMINITUS S. Who was conquered by Cambyses, son of Cyrus—Psaminitlel	PSAMMINITUS S. Who was conquered by Cambyses, son of Cyrus—Psaminitlel	NECUS S - Necussas	•		•	•	•	•	•		6
PSAMMINITUS S. Who was conquered by Cambyses, son of Cyrus—Psaminitlel	PSAMMINITUS S. Who was conquered by Cambyses, son of Cyrus—Psaminitlel	Peammis s — Psammana		•			•		•		6
PSAMMINITUS S. Who was conquered by Cambyses, son of Cyrus—Psaminitlel	PSAMMINITUS S. Who was conquered by Cambyses, son of Cyrus—Psaminitlel	A pring a Aprinf			•						5
PSAMMINITUS S. Who was conquered by Cambyses, son of Cyrus—Psaminitlel	PSAMMINITUS S. Who was conquered by Cambyses, son of Cyrus—Psaminitlel	Arraig Amaslaum	•	•			•				5
KINGS OF MEDIA AFTER THE REVOLT OF THE MEDES FROM SENNACHERIE. DEJOCES—Dejopzou	KINGS OF MEDIA AFTER THE REVOLT OF THE MEDES FROM SENNACHERIE. DEJOCES—Dejopzou	Paramanum a who was on	· na	• Her	ha ^c	hv.	Ċa	mby	rses	3.	1
RINGS OF MEDIA AFTER THE REVOLT OF THE MEDES FROM SENNACHERIB. DEJOCES—Dejopzou	RINGS OF MEDIA AFTER THE REVOLT OF THE MEDES FROM SENNACHERIB. DEJOCES—Dejopzou	f Games Description	7119 7	uCI	cu	D y				,	5
DEJOCES—Dejopzou	DEJOCES—Dejopzou PHRAOrtes s.—Phraslau CYAXAres s.—Cyaxasif Astyages s.—Astuno *Cyaxares II.—Cy-d-lun KINGS OF PERSIA. CYRUS—Cyruts CAMBYSES s.—Cambylen †Oropastes Magus †Oropastes Magus †Oropastes Magus Thystalda XERXES s. by Atossa, daughter of Cyrus—Xerxoku Artaxerxes Longimanus third s.—Longfauf XERXES II. s. slain by Ochus bastard b. commonly Nothodi 7 7 7 7 7 7 7 7 7 7 7 7 7	son of Cyrus—Psaminte	L	•	•	•	•	•	•		
DEJOCES—Dejopzou	DEJOCES—Dejopzou										п
DEJOCES—Dejopzou	DEJOCES—Dejopzou PHRAOrtes s.—Phraslau CYAXAres s.—Cyaxasif Astyages s.—Astuno *Cyaxares II.—Cy-d-lun KINGS OF PERSIA. CYRUS—Cyruts CAMBYSES s.—Cambylen †Oropastes Magus †Oropastes Magus †Oropastes Magus Thystalda XERXES s. by Atossa, daughter of Cyrus—Xerxoku Artaxerxes Longimanus third s.—Longfauf XERXES II. s. slain by Ochus bastard b. commonly Nothodi 7 7 7 7 7 7 7 7 7 7 7 7 7			70T	m 0	T (1) T	T 173	A C D I	70 10	D O	A.
Dejoces—Dejopzou	Dejoces—Dejopzou	KINGS OF MEDIA AFTER THE	RE	BIB AOT.	T O	F T1	1E .	MEDI	13 F	KOE	KAL.
CYRUS—Cyruts CAMBYSES S.—Cambylen †OROpastes MAGUS DARIUS S. of HYSTASPES Hystalda XERXES S. by Atossa, daughter of Cyrus—Xerxoku Artaxerxes Longimanus third s.—Longfauf XERXES II. s. slain by Sogdianus bast. b. slain by Ochus bastard b. commonly Nothodi **Torong Persia.** DARIUS—Cyruts **Torong Persia.** **Tor	CYRUS—Cyruts CAMBYSES S.—Cambylen †OROpastes MAGUS DARIUS S. of HYSTASPES Hystalda XERXES S. by Atossa, daughter of Cyrus—Xerxoku Artaxerxes Longimanus third s.—Longfauf XERXES II. s. slain by Sogdianus bast. b. slain by Ochus bastard b. commonly Nothodi 5 CYRUS—Cyruts 5 CAMBYSES S.—Cambylen 5 Hystalda 7 Hystalda 7 Artaxerxes Longimanus third s.—Longfauf Artaxerxes Longimanus third s.—Longfauf Artaxerxes II. s. slain by Nothodi Nothodi	SENAA	CHE	ICI D	•						и
CYRUS—Cyruts CAMBYSES S.—Cambylen †OROpastes MAGUS DARIUS S. of HYSTASPES Hystalda XERXES S. by Atossa, daughter of Cyrus—Xerxoku Artaxerxes Longimanus third s.—Longfauf XERXES II. s. slain by Sogdianus bast. b. slain by Ochus bastard b. commonly Nothodi **Torong Persia.** DARIUS—Cyruts **Torong Persia.** **Tor	CYRUS—Cyruts CAMBYSES S.—Cambylen †OROpastes MAGUS DARIUS S. of HYSTASPES Hystalda XERXES S. by Atossa, daughter of Cyrus—Xerxoku Artaxerxes Longimanus third s.—Longfauf XERXES II. s. slain by Sogdianus bast. b. slain by Ochus bastard b. commonly Nothodi 5 CYRUS—Cyruts 5 CAMBYSES S.—Cambylen 5 Hystalda 7 Hystalda 7 Artaxerxes Longimanus third s.—Longfauf Artaxerxes Longimanus third s.—Longfauf Artaxerxes II. s. slain by Nothodi Nothodi	D D									17
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CYRUS—Cyruts CAMBYSES S.—Cambylen †OROpastes MAGUS DARIUS S. of HYSTASPES Hystalda XERXES S. by Atossa, daughter of Cyrus—Xerxoku Artaxerxes Longimanus third s.—Longfauf XERXES II. s. slain by Sogdianus bast. b. slain by Ochus bastard b. commonly Nothodi **Torong Persia.** DARIUS—Cyruts **Torong Persia.** **Tor	CYRUS—Cyruts CAMBYSES S.—Cambylen †OROpastes MAGUS DARIUS S. of HYSTASPES Hystalda XERXES S. by Atossa, daughter of Cyrus—Xerxoku Artaxerxes Longimanus third s.—Longfauf XERXES II. s. slain by Sogdianus bast. b. slain by Ochus bastard b. commonly Nothodi 5 CYRUS—Cyruts 5 CAMBYSES S.—Cambylen 5 Hystalda 7 Hystalda 7 Artaxerxes Longimanus third s.—Longfauf Artaxerxes Longimanus third s.—Longfauf Artaxerxes II. s. slain by Nothodi Nothodi	CYAXAres s.—Cyaxasif.	•	•	•		•	•	•	•	0
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XERXES II. s. slain by . Sogdianus bast. b. slain by —Xerd-Sog-Dar- Ochus bastard b. commonly (Nothodi)	XERXES II. s. slain by	+Oronastes MAGus	1 -	-O	ro-	Ma	${f g}$ - ${f I}$)ar-		7	E
XERXES II. s. slain by . Sogdianus bast. b. slain by —Xerd-Sog-Dar- Ochus bastard b. commonly (Nothodi)	XERXES II. s. slain by	DARIUS S. of HYSTASDES	(Hy	sta	lda	•	•			و
XERXES II. s. slain by . Sogdianus bast. b. slain by —Xerd-Sog-Dar- Ochus bastard b. commonly (Nothodi)	XERXES II. s. slain by	XERYES s. by Atossa, daugh	ter	of	Cv	rus		Xer	xok	u	4
XERXES II. s. slain by Sogdianus bast. b. slain by . —Xerd-Sog-Dar	XERXES II. s. slain by . Sogdianus bast. b. slain by —Xerd-Sog-Dar-Ochus bastard b. commonly (Nothodi)	Artaveryes Longimanus th	ird	l s.		Lon	o fa	uf			4
Sogdianus bast. b. slain by —Xerd-Sog-Dar- Ochus bastard b. commonly (Nothodi)	Sogdianus bast. b. slain by —Xerd-Sog-Dar- Ochus bastard b. commonly (Nothodi)	X E Pros II e slain hy	-								
Ochus bastard b. commonly Nothodi	Ochus bastard b. commonly called DARius NOTHUS.	Sandianus hast h slain hy	1		X ei	rd=8	Soo	-Da	ar-	7	ш
called Danius Northus	called Darius Nothus.	Ochus hagtard has manly	, >	N	oth	node	1		~ 2	}	4
	called DARIUS INOTHUS. J	Ochus bastaru b. commoniy		T	Ott	ivu	•	•	•	7	
called DARIUS NOTHUS.		called DARIUS NOTHUS	• 7								

^{*} Cyaxares succeeded Astyages in the civil government, Cyrus, grandson of Astyages, by his daughter Mandane, in military government.

military government.

+ Herodotus calls him Smerdis; Ctesias, Spendadates; ichylus-Mardus; and in Scripture he is called Antaxerxes.

11	Bef.	Christ,
rsaces eldest s. commonly called Artaxerx	es	
M Nemon— M noy f		404
CHus s.—Ochilk		358
Rses youngest s.—Arstip		337
arius Codomannus, descended from Darius N	0-	
thus—Codomattu	•	335

EGYPT.

abacopdoi, Sevpan, Tirhapyl, Prin-bé-skei, Psammitspy, secussas, Psammaug, Aprunf, Amasláun, Psaminitlel.

MEDIA.

ejopzou, Phraslau, Cyaxasif, Astuno, Cy-d-lun.

PERSIA.

ambylen, Oro-Mag-Dar-Hystalda, Xerxoku, Longfauf, erd-Sog-Dar-Nothodi, Mnoyf, Ochilk, Arstip, Codomattu.

TABLE XIV.

IE DIFFERENT NAMES OF THE SAME PERSONS IN SCRIPTURE
AND IN PROFANE AUTHORS.

RBaces	. †Tiglath Pileser, 2 Kings xv. 29.	þ
ELesis	:} BALAdan, Isa. xxxix. 1.	
ardok EMPADU	Merodach BALADan, ibid.	

ssar-Addinus. SESARhaddon, 2 Kings xix. 37.

Asnapper, Ezra iv. 10.

VABONADius . . Belshazzar, Daniel v. 1 and 29.
VAxares . . . Darius the M-ede, Daniel iii. 31.

So, 2 Kings xvii. 4.

Bacon .

† Also Thilgamus and Thilgath Pilneser. † Called also by Nicolas Damascenus, Nanibrus.

Called also by Castor, Ninus, junior.

Called also by Berosus, Nabonnedus; by Megasthenes, Nainidochus; by Herodotus, Labynetus; and by Josephus, Nabodelus.

NECUS	•	. Pharaoh Nесно, 2 Chro. xxxv.
TARAchus .		Tirhakah, Isa. xxxvii. 9.
Apries		Pharaoh Hophrah, Jer. xliv.
Dejoces	•	. Arphaxad, Judith i. 1.
*ARTaxerxes	•	AHASuerus, Esther ii. 16.
Longimanus	•	• ,
SALManeser	•	Enemessar, Tobit i. 2. Shalmon, Hosea x. 14.
Sennacherib	•	. SARGon, Isaiah xx. 1.
Astrages .	٠	. An Asuerus, Daniel ix. 1.
Sevechus .	•	. Sethon, Herodotus 2.
Saosduchinus	•	. †Nabuchodonosor, Judith i. 1.
Cambyses .	•	. Ahasuerus, Ezra iv. 6.
SMERDIS .	•	. Artaxerxes, Ezra iv. 7.

The Memorial Lines.

Arb-Tig, Bel-Bala-Nab, Nabonad-Belsh, Dar-M-C

Sab-Šo,

Dej-Arphax, Apr-Hoph, Empád-Balad, Ass-Esar-Asn Sen-Sarg, Salm-Ene-Shalm, Sev-Seth, Saós-Na Smerd-Art,

Tirh-Tara, Nech-Necus, Art-Long-Asty-Ahas, Ca

Ahasque.

TABLE XV.

KINGS OF EGYPT AND SYRIA, AFTER THE DEATH OF AL ANDER THE GREAT.

KINGS OF EGYPT.	Bef. 6	Cł
Ptolemæus Lagus or Soter-Lagtyo		4
Ptol. Philadelphus s Phadko or Phildeif .		6
Ptol. Euergetes s.—Eudos		
PTOL. Philopator s.—Ptol-Pheeb		
PTOL. EPIPHanes s.—Ptol-Epiphezo		
Ptol. Philometor s.—Phombeiz		İ

* Archbishop Usher thinks that Darius Hystaspes was the Ahasuerus that married Esther; Scaliger, that Xerxes was.

[†] Nabuchodonosor was a name among the Babylonians, c monly given to their kings, as that of Pharaoh was among Egyptians.

CHRONOLOGICA ET HISTORICA.		27
	Bef.	Christ.
tol. Physcon b.—Physcobfu	1,01.	145
tol. LATHYRUS s.—Lathyradz		120
LEXANder n.—Alexan ky		80
tol. AuLetes bastard s. of Lathyrus—Aulaul		65
LEOPATra d.—Cleopatla		51
KINGS OF SYRIA.		
ELeucus Nicanor—Sél-Nitad	•	312
NTIochus Soter s.—Antí-Sodoin	•	279
ntiochus Theos s A-Thedauz	•	260
Leucus Callinicus s.—Sel-Caldfu	•	245
leucus Ceraunus s.—Cerauneel		225
NTiochus Magnus b.—Ant-Magdee	•	222
Leucus Philopator s.—Sel-Phaks	•	186
vtiochus E-piphanes b.—An-Eboil		175
Tiochus Eu Pator s.—Ant-Eupaso		164
Metrius S-oter s. of Seleucus Philopator—De	m-	
Såse		162
exander Bala-Al-Balbuz		150
emetrius Nicator son of Demetrius Soter-	D-	200
Nicafu		145
tiochus SIDETes b.—Sidétboz		140
emetrius Nicator—D-Nicaty		130
		125
Bina—Zebbel	-	120
Grypadi		123
LEUCus s.—Seleucous	•	96
HILL b Philippe	•	92
IILIP b.—Philipne	•	83
TRANES King of Armenia—Tigranett	•	00
The Memorial Lines.		
Ine Wemoriae Lines.		
EGYPT.		
rtyo, Phadko, Eudos, Ptol-Pheeb, Ptol-B	lpipl	nezo,
Phom <i>beiz</i> , ysco <i>bfu</i> , Lathyr <i>adz</i> , Alexan <i>ky</i> , Aul <i>aul</i> , Cleo _l	nat la	,
Jaconya, Dathyraux, Michanny, Malout, Oleo	Sacia	
SYRIA.		
-Nitad, Antí-Sodoin, A-Thedauz, Sel-Cala	lfu.	Ce
auneel,	, ,	

C 2

Ant-Magdee, Sel-Phaks, An-Eboil, Ant-Eúpaso, De Såse,

Al-Balbuz, D-Nicafu, Sidétboz, D-Nicaty, Zebbel, Grypadi, Seleucous, Philipne, Tigráneit. -

TABLE XVI.

JEWISH HIGH PRIESTS, &c. AFTER THE RETURN FROM CAPTIVITY.

				F	Bef. C
JESHUA son of Jozadack—Jeshúalis		•	•		•
Joiakim s.—Joiakokt	•	•	•		
Eliashib s.—Elsholt			•		
Joiadoat					
*Johanan s.—Johanánipt					
JADdua-Jadutob					
Onias Primus s.—On-primida .					
Simon the J-ust s.—Sim-jig					
Eleazar b.—Eleádna					
Manasseh son of Jaddua, and uncle					
Just—Manásseps					
+Onias S-ecundus son of Simon the J					
SIMON SECUNDUS S.—Sim-secdap.					
Onias T-ertius s.—On-tboul					
Jason b.—Jasboil			•		
Menelaus b.—Menelape			•		
On the death of Menelaus, Alcir					
high priest by Antiochus Eupato					
Jonathan, brother of Judas, w					
priest by Alexander Bala.					'
Judas MACCABæus (s. of Mattathias, d	esc	end	led	fro	m
Asmonæus) captain of the Jews					
Jonathan b.—Jonabauz					
Simon Maccabæus—Si-Macbot .					

Called also Jonathan. Nehemiah x. 11.
 He being an infant at his father's death, Eleazar was n high priest.

9
st. 15 16 15
9
3
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i i
4

	B	ef. Ch
TEUCEr first King of Troy—Teuchuzd .		. 18
CADMus first King of Thebes - Cadmáfno .		. 14
SATurn expelled Crete by his son Jupiter, se	ettle	ı
in Italy—Satátty		. 18
Perseus first King of Mycene-Pérsatat.	•	. 13
HERcules, son of Jupiter by Alcmena-Her	bdoij	f 12
The Argonautic expedition—Argóbaup .		. 12
OEDIpus King of Thebes—Oédibess	•	. 12
THEseus son of Ægeus—Thesbdif		. 15
*Codrus the last King of Athens-Codrazpa	•	. 10
CARANUS first King of Macedon—Carankaf		. {
CANDAUles King of Lydia—Candauptu .		
CRŒsus King of Lydia—Cræsúse	•	. 8
Cyrus, founder of the Persian empire-Cyru		. 8
ALExander, founder of the Grecian empire-A	lexit	ta
Julius Cæsar, founder of the Roman empire-	Julo	S

Ninezlou, Semanaul, Sardanpop, Ægialézkou, Inakus, Ogygapaus, Praskoi, Cecblus, Sisyphálzo, Teucbuzd, Cadmáfno, Satátty, Pérsutat, Herbdoif, Argóbdaup, Oédibess, Thesbdif, Codrázpa, Carankaf Candauptu, Cræsúse, Cyruts, Alexita, Julos.

TABLE XVIII.

After the death of Codrus the Athenians had perpetual
Archons, the first of which was Menon-Medazoiz .
Then decennial Archons, the first of which was Charops
-Charoppuo
Then annual Archons, the first of which was Creon—
Creseiz
—— Medazoiz, Charoppuo, Cresciz.

CHRONOLOGICA ET HISTO

	Ber.	Christ.
cond Messenian war—Messku		6 8 a
ttle of Marathon—Marathónz	•	490
ttle of Salamóky	•	480
ttle of Eurymedopz		470
e Peloponnesian war—Pelofib		
ttle of Leuctra—Leuctratpi		
ttle of Mantinea—Mantisi		
ocæan or sacred war—Phocilp		
ttle of the River GRANIcus—Granitif		
ttle at the Issus—Isstit		
ttle of Arbela—Arbtib		331
Exander the Great succeeds Philip-Alexti		336
ilip ARIdæus—Aritet		323
exander Ægus—Ægtas		

The Memorial Lines.

ebadel & Messpot, Messku, Marathónz, Salamóky, rymedopz, Pelofib, Leuctratpi, Mantisi, Phocilp, ranitif, Isstit, Arbtib, Alextis, Aritet, Ægtas.

N. B. After the death of Alexander there arose great a fusion among his Generals about the succession, each zing what he could for himself; till, by leaguing and the large war against each other, they were, after some ars, all destroyed except four. These were Cassander, a simachus, Ptolemy, and Seleucus, who divided the tole empire.

Cassander had Macedon and Greece.

Lysimachus had Thrace and those parts of Asia situated upon the Hellespont and the Bosphorus.

Procemy had Æ-gypt, Libya, A-rabia, Palestine, and Cœlo-Syria.

SELEUCUS all the rest of Asia, &c.

The Memorial Line.

ss-magre, Lys-thrachebos, Ptol-ælibapalsy, Seleuc-as.

TABLE XIX.

GRECIAN LAWGIVERS, PHILOSOPHERS,	AN	D	PO	ETS.	
				Bef.	Christ
Lycurgus born—Lycnes	•	•	•	•	920
Draco-Drásdo	•		•	•	624
Solon died-Solvn				•	559
PYTHAGoras died aged 80-Pytháglys	•			•	500
Euclid the geomet. flourished - Euclipe					40
Socrates died-Socrium					399
XENOPHON died-Xenóphilou					35
Plato died-Platok					34
Diogenes died aged 90—Diotet	•		•		32
Aristotle died aged 63—Aristéd					32
EPICUrus died aged 72—Epicudpa .					27
ARCHImedes slain—Archidad					21:
Linus and Orpheus—Linadka					128
Homer died—Homnad					91:
ARCHILOCHUS—Archilochuskau					68
SAPPHo-Sapphsyd				•	60
Anacreon-Anacloud				•	599
					52
Æschylus born—Æschlel					44
PINDar died aged 80—Pindfoz					
Sophocles born—Sophoclezoi	•	•	•	•	
THEOCRITUS flourished—Theocreku.	•	•	•	•	28
LYCOPHRon flourished—Lycophrepz.	•			•	27

The Memorial Lines.

Lycnes, Drásdo, Solun, Pytháglys, Euclozau, Socrinn, Xenóphilou, Platok, Diotet, Aristéd, Epicudpa, Archidad, Linadka, Homnad & Archilochuskau, Sapphsyd & Anácloud, Æschlel, Pindföz, Sophoclozoi, Theócreku, Lycophrepz. ——

TABLE XX.

ROMAN HISTORY.

The foundation of Rome was laid in the 3961st year f the Julian Period—Rom-pinsa; anno mundi 3251—tom-midub; in the year before Christ 753, or as some 52—Romput; upon the 22d day of April—Apride; the 4th year of the 6th Olympiad—fols.

he Regal State under seven kings lasted 245 years—Stat-regdol.

						Bef.	Christ.
Comulus—Romput	•	•		•	•	•	753
IUMa Pompilius—Numpaf .		•	b	•	•	•	714
1 7 7 1							670
NCus Martius—Ancsip		٠	•	•		•	637
arquinius Priscus - Priscsaf	•	•	•	٠	•	•	614
ERvius Tullius—Servups	•	•	•	•	•	•	576
arquinius Superbus —Superlid							

The Memorial Lines.

Stat-regdol, om-pinsa, Rom-midub, Romput fols Apride, Numpaf, lostilspy, Ancsip, Priscsaf, Servupsque Superlid.

TABLE XXI.

he Consular State, from Brutus and Collatinus the first consuls, to the period when Julius Cæsar was made perpetual dictator, lasted 464 years—Stat-consularoso.

W4404 0004				В́еf.	Christ.	
onsuls first made—Consulzor	•	•	ij	•	507	
irst Dictator—Diconoi	•	•	•	•	497	
reation of the TRIBunes—Tribfoud.						
reation of the DECEMViri-Decemvoli	1	•	•	•	450	

В	ef. Chri
Creation of the Military T-ribunes - Mil-tfoz .	. 44
INCENDIUM Urbis, or the burning of the city by	y
the Gauls-Incendikk	. 38
War with the Samnites—Samnife	. 34
War with Pyrrhus King of Epirus-Pyrdoin .	. 27
	26
Second Punic war. BELlum-Bel-punest-	21
First Punic war . Second Punic war . BELlum—Bel-punesi-das-bok	14
The end of the sedition of the GRACCHi-Grac	
chade	. 12
The Jugurthine war-Jugubzou	. 10
War with the Cimbri—Cimbat	. 11
The social or ITALian war-Italein	. 8
War begun with MITHRIDATES-Mithridatkou	. 8
Dictatorship of Sylla—Syl-dicteiz	. 8
Dictatorship of Sylla—Syl-dicteiz	. 6
First Triumvirate — Trun	. 5.
Battle of Pharsalia-Pharsop	. 4
BATtle of Philippi—Bat-philob	. 4
Battle of Actium—Acta	. 3

Consulzoi, Diconoi, Tribfoud, Decemvoly, Mil-tfoz, Incendikk, Samnife, Pyrdoin, Bel-punesi-das-bok, Gracchade, Jugubzou, Cimbat, Italein, Mithridatkou, Syl-dicteiz, Catilaud, Trun, Pharsop, Bat-philob, Acta.

TABLE XXII.

THE TWELVE CÆSARS.

_					Bef	. Christ,
I.	Julius Cæsar—Julios	•	•	•	•	46
11.	Augustel Augustel	•	•	•		25
				Α.		D

III.	TIBERIUS step-s Tiberbu .				18
TTT	0 11 111			_	
AV.	Califula great nCalifulik	•	•	•	38

XIV. Heliogabalus dap-k.

XXV. A Lexander S-everus—Al-Sédd

218

223

Anno	Domin
XXVI. M-aximinus & M-aximus—M-Metu	23
XXVII. Pupienus and B-albinus—Pu-Bdik	
XXVIII. Gordian—Gordin	23
XXIX. Philip—Pheff	24
XXX. Declus—Decidon	24
XXXI.*GALlus & Volusian—Gal-Vódla .	
XXXII. VALERian—Valéreli	
XXXIII. GALlieNus—Galndauz	26
XXXIV.+Flavius Claudius—Clesk	26
XXXV. Aurelian—Aurepz	
XXXVI. TACItus—Tacidoil	27
XXXVII. PROBUS—Probdois	
XXXVIII. CARus and his sons C-arinus and	-
Numerian—Car-C-Nudke	28
XXXIX. Dioclesian & Maximian—Di-Max-	
deif	28
XL. Constantius Chlorus & Galerius—	
Chlo-Galtyt	30
XLI. †Constantine the Great-Constys .	. /
XLII. Filii Constantini, the three sons of	
Constantine, viz. Constantine, Con-	
stantius, & Constans—Fil-Constip	
XLIII. Julian, nephew to Constantine the Great—Julisa	36
TITY Town I C	00
ALIV. Jovian—Joviauf	• • • • •

Emilian among the number of emperors; but because he wanter established in the empire, nor his title generally acknowledged, others more justly place him only among the usurpers.

Tedged, others more justly place him only among the usurpers.

† Flavius Claudius. Upon the death of Claudius, Aurelia was unanimously chosen by the army: and at the same time Quintillus, brother to Claudius, was proclaimed emperor in Italy, an his election allowed by the senate; but finding himself unable to support his cause against Aurelian, he despatched himself, by causing his veins to be opened, after a short reign only of seven teen days, before he was rightly settled in his empire for which reason he is here omitted.

[‡] Constantine was saluted Emperor of the West upon the death of his father Constantius Chlorus; but was not sole monarcy fill the defeat and death of Licinius, An. Dom. 323—Licinited He removed the imperial seat to Byzantium in the year 330—Byzantiz:

Nervous, Trank, Adribap, Antbip, Ant-phibsa, Commódbeiz,

Pert-Juli-Sant, Car-Gdab, Mac-D-Hedap-k, Al-Sédd,

M-Metu, Pu-Bdik,

Gordin, Pheff, Decidon, Gal-Vódla, Valéreli, Galndauz, Clesk, Aurepz, Tacidoil, Probdois, Car-C-Nudke, Di-Maxdeif,

Chlo-Galtyt, Constys, Fil-Constip, Julisa, Jovtauf.

TABLE XXIV.

THE DIVISION OF THE EMPIRE.

EASTERN.	WESTERN.
A. D.	A. D.
VALens—Valiso 364	VALENTINIAN—Valti-
THEodosius MAGnus—	nitauf 364
The-Magtoin 379	
Arcadius—Arctoul . 395	VALentinian the S-e-
THEOdosius JUNIOr-	cond—Val-sikt 383
Theo-Júnozei 408	Honorius—Honotni. 393
Marcian-Marcolz . 450	Valentinian the T-hird
Leo-Léoloi 457	—Va-tódo 424
ZENO-Zenofpo 474	Maximus Avitus —
Anastasius - Ana-	Max-Aviful 455
stafna 491	Majorian—Majolp . 457
Justin—Justlak 518	* * * *
Justinian—Justinilep 527	Augustulus, in whom
* * * *	ended the western
PHOCAS—Phocauze . 602	empire — Augustfoil 475
* * * *	The restoration of the
Leo Isauricus — Le-	western empire by
Ispap 717	CHARLEMagne —
* * * *	Charlmeig 800
IRENe-Irénpoup : . 797	* * * *
Basilius Macedo -	OTHOMAGnus—Oth-
Bas-Macekaup 867	Magnis 936

E STERN. A. D.	WESTERN. A. D.						
* * * *	* * * *						
LEO Philosophus -	Henricus Quartus						
Leo-Pheiks 886	-Hen-quarbzup . 1057						
* * * * *	* * * *						
A Lexius C-omnenus	Frederick ÆNobarbus						
-Al-Cazka 1081	-Enbale 1152						
秦 崇 崇 崇	* * * * *						
MichaelPalæologus	FREdericus Secundus						
-Micha-Paladsa . 1261	—Frebdap 1217						
* * * *	• * * *						
Constantinople taken in the reign of Constantine Palæologus the last Emperor of the East—Constantinck li (see page 11)							
The Memo	orial Lines.						

EASTERN EMPERORS.

Valiso, The-Magtoin, Arctoul, Theo-Júnozei, Marcolz, Léoloi, Zenofpo, Anastafna, ——
Justlak, Justinilep, Phocauze, Le-Ispap, Irénpoup, Bas-Macekaup, Leo-Pheiks, Al-Cazka, Micha-Paladsa.

WESTERN EMPERORS.

It was not agreeable with the author's design to give a complete table of all the Eastern and Western Emperors. The succession was carried down to the sixth century; and after that, only a few are added of such as were most remarkable: to which it may not be improper to subjoin those persons who were famous for wasting and ravaging the Roman Empire.

Alaric, King of the Goths, besieges,	
plunders Rome—Alrobz	Scource of
God, ravages Italy—Attifla:	451

Anno Domini.

Enseric the Vandal sacks Rome—Gensful Doacer, King of the Heruli, makes himself master	455
	476
$M(1) \neq 1$	493
	547
The Memorial Line.	
Alroba, Attifla, Gensful, Odops, Theódoni, Totlop	
TABLE XXV.	
EASTERN GENERAL COUNCILS. (See page 5.)	A. D;
	Year.
NT O	325
unopie) (us Magnus) (mans)	381
EPHesus Celestine Theod. jun. Nestorians	431
CHAL- cedon LEO MARcian Eutyches & Dio- scorus	451
Constantinople Vigilius Justinian O-rigenists	553
C-onstan Agatho { Constantine Monotinople } Agatho { Pogonatus } { Monotinople }	680
The Memorial Lines.	
ic-Sil-Con-Aritel, Co-Da-Thé-Mateib, Eph-Ce-T	he-
Nésfib,	
hál-Le-Mar-Eudíola, Co-Vi-Júst-Olut, C-Ag-Co-I Monseiz.	Po-
WESTERN GENERAL COUNCILS. Anno Do	mini. 1 22

—Latbéd-in-oil-dal-lap

Lateran

Lateran Lateran Lateran

							An	no Domini,
1. Lyons \ -Lyodúl-doif								§ 1255
2. Lyons \ —Lyount-uoij	•	•	•	•	•	•	•	1274
Vienna—Vitaa	•	•	•	•			•	. 1311
Constance—Constfaf .	•	•	•	•		•	•	. 1414
Basil—Basfia	•	•		•	•		•	. 1431
FLORENCE—Florénfin .								
TRENt—Trenalol								

Latbéd-in-oil-dal-lap, Lyodúl-doif, Vítaa, Constfaf, Basfia, Florénfin, Trenalol.——

N. B. A thousand is to be added. Note also, that the second and third Lateran being in the same century with the first, b is left out, as bed-in-oil, instead of bed-bin-boil; the syllables in order answering to the order of the councils.

COUNCILS NOT ŒCUMENICAL.

		A. D.		A. D
Ancyra	—Anc- ?	915	Antioch—Antob.	341
NEocæsarea	Neotal \	210	Antioch—Antob. SARDica—Sardifp	347
GANGra-Ga		340	Laodicea—Laódisa	361

The Memorial Line.

Anc-Neotal, Gangtoz, Antob, Laódisa, Sardifp.

TABLE XXVI.

FATHERS, HERETICS,	&c.					
			F	lour	ished	A. II
HERMas PASTor—Herm-Pastaul	•	•	•	•		65
CLEmens Romanus—Clé-Romaul		•	•			65
IGNAtius—Ignabza		•	•			101
Polycarázei						108
Justin Martyr-Jus-Marboz			•			110
Irenœus—Irasp						167
Theophilus Antiochenus—Thask .						168
ATHENagoras—Athnapp			•			177
CLemens Alexandrinus Cl-éxane	ċ		•	•	•	192
TERTullian—Tertand:	•	i	3	, r		191

CHRONOLOGICA ET HISTORIUA.	11
Flourished A.	D.
INutius F-elix—Min-Fdez	20
Rigen—Oretz	30
regory Thaumaturgus—Thaumelf 2	54
YPRian martyred—Cyprelk	58
ACTANtius—Lactantyt	03
RNobius—Arntut	03
Usebius Pamphilius—Eu-Pamtal	15
THAnasius—Atha <i>tes</i>	26
YRil of J-erusalem—Cyr-Jilz	50
ILARY—Hilarilf	54
PIPHANius—Epiphánisk	68
PIPHANius—Epiphánisk	70
Asil Magnus—Bas-Magtoiz	70
REGORY Nazianzen—Grego-Naztoiz 3	
ACARius—Macarint	73
ACARius— $Macaript$	74
EROMe—Jerom $toik$	78
VAGrius—Evag <i>teiz</i>	80
UFinus—Rufinz	00 00
USTin or Augustin—Austins	96 96
HRYSOstom—Chrysotouk	ogi
YRil of Alexandria—Cyr-Alexôbe	10
YRII OI ALEXANOITA—Cyr-Alexove 4	14
HILO Judæus-Phil-Jufy	40
OSEPHus—Joséphaup	67
Quila—Aquibek	28
HEODOTion—Theodótanu	7 5
HEODOTion —Theodót apu	01
HERETICS:	,
ERINTHUS—Cerintheiz	80
Papias-Papaaz	10
Basilides— $Basilibbe$	12
ALENTinian—Valentady	20
IARcian—Marchoz	40
lermogenes—Hermogapy 1	70
HERETICS: PAPIAS—Papaaz	72
Novatian - Novdua	51
Aulus Samosatanus—Pau-Samdauz 2	60
IANes—Manepp	77
The state of the s	

							Flou	rishe	d A.I
ARIUS Aritel (see page 6))	•	•	•	•	•			32
Donatus—Dónaten		4	•	•	•	•	•	•	32
Eunomius—Eunomitauz	•	•	•	•		6	•		36
Priscillian—Priscitpa.	•		4		•	•	•	•	37
Pelagiózu .	•	•	•			•	•	•	40
WRITERS AGAIN									
Celsus—Celsbuz		•		•	•		•		15(
HIEROCLES—Hierocléze	•	•		•	•	•		•	20:
Porphepy .	•	•	•	•	•	•		٠	270
Zosimus—Zosfel		w	•	•	•	•	•	•	425
The Memorial Lines.									
Herm-Pastaul, Clé-Romau					Po	lve	ar <i>ic</i>	zei.	
Jus-Marboz, Irasp, Thask,	A t	hna	nn	. Cl	l-éx	anı	e. T	'erf	and.
Min-Fdez, Oretz, Thaumelf,	Cy	pro	elk.	La	ctai	atui	t &	Ar	n <i>tut</i>
Eu-Pamtal, Athates, Cyr-J	iz	, B	lila	rilf	, E	מומי	hái	nish	
Eph-Syr-Bas Gregotoiz, Ma	aca	rip.	t, A	mb	rot	po,	Jer	om	toik.
Evagteiz, Rufinz, Austins,	C	irys	soto	ouk	, C	yr-	Ale	esól	be.
Phil-Jufy, Joséphaup, Aqu									
Cerintheiz, Papaaz, Basilib					-				/ /
Hermogapy, Montape, Pau-									
Dónaten, Eunomitauz, Pris									11,
Celsbuz, Hierocléze, —— Porphepy, Zosfel.									
	•								

TABLE XXVII.

POPES, AUTHORS,					-				n. Dom.
LIBERius—Libertle	•			•	•	•		•	352
Zosimus—Zosoap	•	•		•	•	•	•		417
Leo M-agnus—Leo-Moff	•			•	•	•	•	•	444
GELASius—Gelásone	•	•		•	•	•	•		492
Joan Joan kof	•	•	•	•	•	•	•		844
URBan VI. CLEment VII. Antipopes-	_1	Trb.	- 5-	Cle	n.	ato:	; ; ;		1377
CLEment VII. S The Popes			- O -	Cic	P	-uio	T	•	1011
L-eo X.—L-az-blat	•	•	•	•	•	•	•	•	1513
GREGORY XIII.—Grego-ba	i- bi	îpe							1572
S-extus Quintus—S-Quina	leil	•	•	•	٠	•	•	•	1585
CLEment VIII.—Cle-k-alor	ıd	•	•			•			1592

							E	sef.	Christ.
SANCHoniathon—Sanchabor	ut	•		•	•	•	•	•	1193
HERODOtus—Herodofus	•	•	•	•	•	•	•		456
MANETHO—Manetheky.	•	•	•	•	•	•		•	280
Berosus—Berodsou	•	•	•	•	•	•	•		269
HIPPARchus — Hipparbse	•	•	•	•	•	•			162
ONKELOS—Onkelkoi.							Am	io I	Domini
TACIONA TRAILE	•	•	•	•	•	•	•	٠	87
TACITUS—Tacitázei	•	•	•	•	•	•	•	٠	108
Aulus Gellius—Gelaad.	•	•	•	•	•	•	•	٠	112
Pausanias—Pausato	•	•	•	•	•	•	•	•	134
Galen-Galbot	• 7.	•	•	•	•	•	•	٠	143
Diogenes LAERTius—Laert	p_0	•	•	•	•	1	•	٠	147
PRU Dentius—Prudinp .									
Eutropius—Eutropfek.									
MERLin-Merlopoi	ě	•	•	•	•	•	•	•	477
Hesychius-Heschfoun.	•	•	•	•	•	•	•	٠	499
Procopius—Procolip .	•	•	•	•	•	•	•	ė	537
AGATHias—Agathlaup .		•	•	•	• •	•	•	•	567
GILDas—Gildusp									
Bede—Bedsaus	•	•	•	•	•	•	•	•	
ZONARAS—Zonarabbak.	•	•	•	•	•	•	•	٠	1118
GRATian—Gratabla	•	•	•	•	•	•	•	•	1151
BALsamon—Balaboub .	•	•	•	•	•	•	•	•	1191
Petrus Lombardus-Lomba	lk	. ,	•	•	•	•	•	•	1158
CHOMAS AQUINAS—Thom-	Aqu	ads	i	•	•	•	•	•	1263
FETRarch—Petrattu	•	•	•	•	•	•	•	•	1335
Prol. Geograph.—Ptol-									
COPERNICUS—Copérnicafo	it	•	•	•	•	•	•	•	1473
Гусно Brahe—Tychblos	•	•	•	•	•	•	•	•	1546
GALILæo—Galil <i>asfe</i> ERASMUS obit—Erasm <i>uts</i> Robert Stephens obit—Ro	•	•	•	•	•	•	•	•	1642
ERASMus obit—Erasmuts	•	•	•	•	•	•	•	•	1536
Robert Stephens obit—Ro	-St	lun	•	•	•	•	•	•	1559
TIR Nebus - Turnlaul.									1565
denry Stephens obit He	en-5	tets	38	•		•	•	•	1903
THUANUS Historicus—Thus	insa	p	•	•	•	• .	•	•	1617
The Memo	aria	1. T.	ines	3.					
						7.	C		
Libertle, Zosoap, Leo-Moff									77
Jrb-s-Cle-p-atoip, L-az-bla	t, i	3-6	ellli	late	ell,	Ui	e-k	:- a	ioua,
Grego-bi-bûpe.	, 1	. 7	TT	•			D		2000
Banchabout, Herodofus, Man	ietli	еку	, ii	ipp	arl	ose,	De	ro	asou.

Onkelkoi, Gelaad, Tacitázei, Pausato, Galbot, Laertbop, Prudinp, Eutropfek, Merlopoi, Heschfoun, Procolip, Agathlaup, Gildusp, Bedsaus, Zonarabbak, Gratabla, Balaboub, Lombalk, Thom-Aquadsi, Petrattu Ptol-Gëografz, Tychblos, Copérnicafout, Galilasfe, Erasmuts, Ro-Stlun, Turnlaul, Hen-Stelsi, Thuansap.

The time when any Author or famous Man flourished may also be known i general, as follows:

VITRUVIUS in the	ti	me	of	•	•	•	Julius Cæsar.
Dionysius HALIC	arı	ass	sens	sis,	unc	ler	Augustus.
STRABO SILius ITALicus Quintus CURTius		•	•	•	•	•	Tiberius.
SILius ITALicus	•	•	•	•	•	•	NERO.
Quintus CURTius	•	•	•	•		•	Vespasian.
Plutarch ?							
Applan . }	•	•	•	•	•	•	TRAjan.
ARRIan	•	•		•	•	•	Antoninus P-ius.
Ulpian	•	•	•	•	•	•	Antoninus P-ius. Severus.
Prosper Orosius .							
Orosius .	•	•	•	•	•	•	THEodosius junior
Z-osimus							June
Jornandes	•			•	•	•	Justinian.

The Memorial Lines.

Vitruv-Jul, Halic-Aug, Strab-Tib, Sil-Itál-Nero, Curt-Vesp, Plut-Appi-Tra, Arri-Ant-P, Ulp-Sev, Pros-Oró-Z.

Theo, Jorn-Just.

TABLE XXVIII.

THE FOUNDERS OF THE STATES OF EUROPE.

	CD: 1 CD	Anno	Domini
	Bishop of Rome.	St. Peter—Peft	43
	Pope	HYGinus—Hygalo	154
به	Imperii Orientis.	GALerius—Ori-Galtut	303
e first	STantinople	ARCadius—Const-Arc-	> 393
The	Turkish Emperor	OTTOMan — Turk - Ot-	1295
	Emperor of the	Julius Cæsar [before Christ]—Rom-Jufs	46

	Anno Domini.
the Empire	Opoacer—Ital-Odops . 476
Emperor of GER-	Charlmeig } 800
King of FRANCE	PHARAMond—Fran- Pharamódy 420
King of Spain .	ATHaulphus—Sp Athfaz 410
King of Portugal	Alphonsus—Port-Alabin 1139
King of Scorland	FERGUS [before Christ] 332
King of England	Egbert—Engkek 828
King of Poland .	Boleslaus-Pol-Bolath 1004
King of DENmark	Olaus-Den-Olakzou . 805
King of Sweden .	B-ero—Swe-B <i>kib</i> 831

The Memorial Lines.

Peft, Hygalo, Ori-Galtyt, Const-Arctoul, Turk-Ottomadnoi,

Rom-Jufs, Ital-Odops, Ger-Charlmeig, Fran-Pharamódy Sp-Athfaz, Port-Alabin, Scot-Fergtid, Pol-Bolath, Engkek, Den-Olakzou, Swe-Bkib.——

TABLE XXIX.

THE NEW TESTAMENT.

	An. Dom.	An. Dom.
L	THESSAL. \ —Thes- \ 52	Titus and 7—Ti-
2	Thessal. \ le-t \ \ 53	1 Timothy & Timsu . 5
Ĺ	Peter—Pelf 54	2 Peter 7 —Sec-Pe- 1 cm
G	Alatians) —Gá-)	2 Peter 3 — Sec-Pe- 3 Timaup 67
		Jude-Judpa 71
R	-omans) Rup)	Revelations—Revnau . 96
P	Hilippians) Dis	John, Gospel & Epistles
	O Lossians	Jonp 97
E		MATthew_MóborMatfa 41
P	Hilemon . E-Pn-	Mark-Marot 43
Ţ	Ames Jase	L- ake—Laub 61
E	lebrews—Hebsi 63	Acts-Acst 63

The Memorial Lines.

Thes-le-t, Pelf, Gá-Co-Rup, Phi-Col-E-Ph-Jase, Hebsi, Ti-Timsu,

Sec-Pe-Timaup, Judpa, Revnau, Jonp, Mób, Marot, Laub, Acst.

TABLE XXX.

THE PROVINCIAL AND LEGATINE CONSTITUTIONS, ACCORDING TO THE ORDER IN WHICH THEY WERE MADE.

				Cor	astiti	ution	ies F	Edit	tæ A.D
STEPHani—Stephede			•	•	•			•	1222
RICARdi-Ricardiz ,	3	•	•	•	•	•	•	•	1230
EDMUNdi-Edmundis		•	•	•	•				1236
OTHonis Card. Legati-Otho	dij)	•	•					1237
Bonifacii—Bonesa	_	•	•	•	•				1261
Отновопі Card. Legati—Ot				,					1268
J. Peccham apud READing-					doi	n			1278
Ejusdem, apud LAMBeth-P	ec	-La	amb	oek	α				1281
R. Winchelsey-Winchtyl.		•	•	•		•			130
WALter-Walted		•	•	•	•	•			132
Simon Mepham-Si-Mepht	ek	•	•	•	•				1328
J. STRATFORd-Stratfotod .	,	•	•						134:
S. Islepe-Isleptaud		•	•	•					136
S. LANCHam-Langhisp		•	•	•	•	•			136
S. Sudbury-Sudbutoik		•	•	•		•	•		1378
T. ARUNdel-Arunfyk		•	•		4	•	•		140
H. Chichley-Chichfal			•	•	•	•			141
V									

The Memorial Lines.

Stephede, Ricardiz, Edmundis, Othdip, Othobdauk, Bonesa, Pec-Readdoin, Winchtyl, Pec-Lambeka, Walted Si-Mephtek, Stratfotod, Isleptaud, Chichfal, Arunfyk, Sudbutoik, & Langhisp.——

GEOGRAPHICA.

SECTION III.

THE APPLICATION OF THIS ART TO GEOGRAPHY.

the first place are laid down the general divisions of crope, Asia, Africa, and America; then the particular visions of the several states of Europe, into their rective governments or provinces. For every division ere is one technical line, composed of the first syllable resometimes only of the first letters) of the parts or access into which it is subdivided; which syllables or ters are distinguished from the rest, in the tables, by tall capitals, or an hyphen following.

It is further to be observed, that the beginning, middle, d ending of the line, answer, in order, to the northern, iddle, and southern divisions of the kingdoms or counces; so that not only the places themselves, but, in some easure, their situation with respect to each other, may remembered at the same time. Thus, in the memorial e for France, as it was before the Revolution, Fra=

Nor-I-Cham; Bret-O-BouL; Guí-La-DaP.

P Nor-1-Cham denotes the four northern governments, P-icardy, Normandy, I-sle of France, and CHAM-gne.

Bret-O-BouL denotes the four middle governments, viz. RETagne, O-rleanois, Bourgogne, and L-ionnois.

Guí-La-DaP denotes the four southern governments. Guienne with Gascony, Languedoc, Dauphiny, and rovence.

It will be yet some further help to remember the sit ation of places, to observe, that in the several divisions begin at the west, and go the eastward, as far as the limit of the country will allow, in a strait line, unless whe the irregularity of the position makes this method incovenient or impracticable; where that is the case, the reader will supply the defect by his own observation, and by comparing with proper maps.

Observe further, that where the syllables are connected with an hyphen, the countries denoted by them are connected by them are connected by them are connected by them are connected by them.

tiguous from west to east; thus,

Nor-I-Cham shows that the Isle of France joins Normandy on the east, and Champagne to the Isle France on the east. Where the syllables or letters d noting two or more countries are joined together witho an hyphen, there the countries are contiguous from nor to south. Thus, Guí-La-DaP shows that Languedoc joi to Guienne on the east, Dauphiny and Provence to Laguedoc on the east; and also that Provence is contiguo to and south of Dauphiny. Such syllables as have hyphen preceding, but are not by it immediately join to the foregoing syllable, signify that the countries denote by them lie eastward, but are not contiguous. The Sp-It-Turk shows that Italy is east of Spain, and Turk east of Italy, but not contiguous.

When the reader is become well acquainted with the general divisions, he may then go on to charge his memo with the chief cities and most remarkable places of ever country, their longitude and latitude, the correspondent of ancient and present geography, the geography of the Old and New Testament, the proportions of the states Europe to Great Britain, the situation of the most not islands, with other instructive and entertaining particular in geography; all which he will find himself able to remember with greater ease than he could possibly have suppossibly have suppossed to the became acquainted with the memorial lines contains.

trived for that purpose.

TABLE I.

THE GENERAL DIVISIONS OF EUROPE, ASIA, AFRICA, AND AMERICA.

I. EUROPE is divided into,

- 1. Northern—containing Norway, S-weden, Russia, D-enmark.
- 2. Middle comprising the Netherlands, Germany, Poland, L-ittle T-artary, FRANCE, SWITZERLAND, HUNgary, TRANSILVANIA, Moldavia, WAlachia.

3. Southern—consisting of Spain with Portugal, Italy,

Turkey.

The Memorial Line.

EUR=No-S-Ru D; Né-Ge-Po-LT, Fran-Switz, Hun-Tran-Mo-Wa; Sp-It-Turk.

II. ASIA is divided into,

1. Northern—containing Great Tartary, Georgia.

2. Middle—including Turkey in Asia, Persia, Empire of the Mogul, China.

3. Southern—comprehending ARABia, East Indies.

The Memorial Line.

AS=Ta-Geo; Tur-Pé-Mo-Chin; Arab-Ind.

III. AFRICA is divided into,

- 1. Northern—containing BArbary, BILdulgerid, E-gypt.
- 2. Middle—subdivided into ZAAra, N Egroland, Guinea, N-ubia.
- 3. Southern—consisting of Congo, Abyssinia, coast of Abex, coast of Cafraria, Monomotapa, Zanguebar, coast of Ajan.

The Memorial Line.

AF=BáBil-E; ZáNeGui-N; Con-Abyss-Abex, Caf-Mono-Zangu-Aj.

IV. AMERICA is divided into,

1. N-orthern—containing New Wales, New Britai Louisiana, Canada, Mexico, Florida, Carolina, Viginia, M-aryland, P-ennsilvania, New York, New J-erse New England, lying from south-west to north-east.

2. S-outhern-including Terra FIRMA, PERU, count of the AMAZONS, BRAZIL, CHILI, PARAGUAY, Terra M.

Gellanica.

The Memorial Lines.

N-AM = Wal-Brit, Lóuis-Can, Mex-Flor, Cár-Vi-l P-YorJ Eng.

~--S-AM=Fírm, Per-Amáz Bra, Chi-Par, Mag.

TABLE II.

THE PARTICULAR DIVISIONS OF NORTHERN EUROPE.

I. NORWAY is divided into five parts or governments, v

WARDhuys (including F-inmark and Norwegian Laland), DRontheim, BERgen, Anslo.

II. SWEDEN was divided into four general parts, v Swedish Lapland (with B-othnia intermingled), Sw den P-roper, Finland (lately seized by Russia), a Gothland.

III. DENMARK contains

The peninsula of Jutland, ZEAland, and the lesser isla

IV. RUSSIA contains many provinces, the most co siderable of which are,

Northern-Lapland, Dwina or Archangel.

Middle—Finland, Esthonia, Livonia, Ingria, No gorod. Moscow.

Western-Lithuania, Polotsk, Mohilev, Ukrain

BELgorod.

Southern—Budziak Tartary, CRIM Tartary or Taurid Voronez, Don K-ozacks.

The Memorial Lines for Northern Europe.

NOR=Ward (F-Lap), DroBerAns. SWED=Lá (B), SweP-Fin Goth.

DEN=Jut-Zea. —

RUSS=Lap-Dwi; FinEst Liv, Ing-Nov-Mosc; Lith-Pol-Mo-Ukr-Bel; Bud-Crim-Vor-DonK.

TABLE III.

THE PARTICULAR DIVISIONS OF MIDDLE EUROPE.

I. The NETHERLANDS, or Low Countries, hereofore were generally distinguished into the United or
Outch Netherlands lying to the north, frequently called
Holland, and the former Spanish Netherlands to the south,
often called Flanders, from the most remarkable province
in each.

The United Netherlands, now incorporated with France, ormerly were divided into seven provinces, viz. FRIESland, Roningen, Overyssel, H-olland, U-trecht, Guelderland

vith Zutphen, Z-ealand.

The Spanish Netherlands, now swallowed up by France, vere usually divided into these ten provinces, viz. Flaners, B-rabant, (Marquisate of the empire within Brabant, beignory of Malines within Brabant,) part of G-uelderland, Limburg, Artois, Hainault, Namur, Luxemburg.

The Memorial Line.

HOLL=Fries-GrOv, H-U-Gue-Zu Z; Fla-B (Mar-Ma), GLim Art-Hai Na-Luxem.

II. GERMANY was divided into nine circles:

Three northern—circle of Westphalia, circle of lower saxony, circle of upper Saxony.

Three middle—circle of lower Ruine, circle of upper

Chine, circle of FRANconia.

Three southern—circle of Suabia, circle of Bavaria, ircle of Austria.

MEMORIA TECHNICA.

To which may be added, the kingdom of BOHEMIA, distinguished into four general parts, viz. Lusatia, Silesia, Bohemia P-roper, Moravia.

The Memorial Lines.

GERM=We-Sal-up; Rhil-u-Fran; Sua-Bav-Aus. BOHE=Lusa-Si-BoP-Mor.

III. POLAND was divided into two general parts; the duchy of Lithuania, and the kingdom of Poland, properly so called.

Lithuania, consisting of the duchy of Courland, SA.

mogitia, LITHuania Proper.

The kingdom of Poland contained Prussia, Polachia Azovia, Poland magna, Poland parva, Little Russia Olhinia, Podolia.

The Memorial Line.

POL=CouSa-Lith, Pru-Polach, Maz, Polma-pa, Rus VolhiPodol.

IV. FRANCE was divided into twelve governments now, including the conquered countries, into about 12 departments:

Four northern—P-icardy, Normandy, I-sle of France Champagne.

Four middle-Bretagne, O-rleannois, Bourgogne

L-ionnois.

Four southern—Guienne with Gascony, Languedoc Dauphiny, P-rovence.

To which may be added, the other countries comprehended within the compass of Old Gaul, viz.

Lorrain, east of Champagne.

Savoy, east of Bourgogne, or Burgundy, and Dauphing Switzerland, east of Franché C-ompté. Franché Compté, east of B-urgundy.

The Memorial Lines.

FRA=P Nor-I-Cham; Brét-O-BouL; Guí-La-Dal LorCh, Sav BuDa, SwiC, CoB.

TABLE IV.

THE PARTICULAR DIVISIONS OF SOUTHERN EUROPE.

I. SPAIN (excluding Portugal) may be divided into two general parts:

Northern—containing eight provinces, viz. Gallicia, A-sturia, Biscay, N-avarre, Aragon, Catalonia, Leon, Old (vetus) Castile.

Southern—containing five provinces, viz. New (nova) Castile, Valencia, Andalusia, Murcia, G-ranada.

The Memorial Line.

PA=Gál-A-Bisc-N-Ara-Cat, Lé-Casvet; Casno-Val, And-MurG.

II. ITALY might formerly be distinguished into

Northern, or Lombardy—containing Piedmont, Monterrat, Milan, G-enoa, Venice, Mantua, Parma, Miandola, Modena.

Southern-Lucca, Tuscany or Etruria, the PAPacy

or States of the Church, NAPles.

The Memorial Line.

T=Lom (=Pi-Mont-MilG, VenManPa-Mi-Mód), Lu-Tu, Pap-Nap.

III. TURKEY in EUROPE may be distinguished into

Northern—containing Bessarabia, Croatia, D-almatia, Bosnia, Servia, Bulgaria.

Southern-containing Albania, Macedonia, Romania,

CHIMæra, JAnna, LIVADia, MoRea.

The Memorial Line.

TURK = Bess, CroD-Bó-Se-Bulg; Alb-Mac-Rom, Chim-Ja, LivadMor.

The Memorial Lines for all Europe.

NOR=Ward (F-Lap), DroBerAns. SWED=Lá (1 SweP-Fin Goth.

DEN=Jut-Zea. -

RUSS = Lap-Dwi; Fin Est Liv, Ing-Nov-Mosc; Li Pol-Mo-Ukr-Bel; Bud-Crim-Vor-DonK.

HOLL=Fries-GrOv, H-U-Gue-Zu Z; Fla-B (M Ma), GLim Art-Hai-Na-Luxem.

GERM=We-Sal-up; Rhil-u-Fran; Sua-Bav-Aus.

BOHE=Lusa-Si-BoP-Mor.

POL=CouSa-Lith, Pru-Polach, Maz, Polma-pa, Ru Volhi Podol.

FRA=P Nor-I-Cham; Brét-O-BouL; Guí-La-Da Lor Ch, Sav Bu Da, Swi C, Co B.

SPA=Gál-A-Bisc-N-Ara-Cat, Lé-Casvet; Casno-V And-MurG.

IT=Lom (=Pi-Mont-MilG, VenManPa-Mi-Mód), I Tu, Pap-Nap.

TURK = Bess, CroD-Bó-Se-Bulg; Alb-Mac-Ro Chim-Ja, LivadMor.

TABLE V.

ENGLAND, WALES, IRELAND, AND SCOTLAND.

I. ENGLAND may be divided into three general par northern, middle, and southern; which altogether co tain forty counties or shires.

The northern part of England contains six counties shires:

Cumberland Westmoreland Lancashire [Cum-WeLa]

On the west coast, from north to south, On the east coast, from north to so Northumberland Durham Yorkshire [NorDurYor]

The middle part of England contains twenty-four con ties or shires:

In the west, joining to Wales from On the east coast, from north to north to south, south. HEshire .) Lincolnshire Hropshire (N-orfolk **H** Erefordshire S-uffolk Monmouthshire. Essex [CheShHeMon] [Li NSEss] Between Lincolnsh. E. & Between Norfolk & Suffolk Between Essex E. and heshire & Shropshire W. E. and Herefordshire W. Monmouthshire W. Derbyshire Worcestershire G_Loucestershire Notting-WArwickshire O-xfordshire hamshire ' Northamptonshire | Buckinghamshire TAFfordshire B-edfordshire Hertfordshire Elcestershire Huntingdonshire M-iddlesex **R-utlandshire** C-ambridgeshire TDe-No-Staf-Wor-Wá-No-[Gl-O-Buc-

The southern part of England contains ten counties or hires:

B-Hun-C]

Her M7

Lei-R7

| Corn-Devonshire | Corn-Dev-So-Dorsetshire | Corn-Dorsetshire | Corn-

The Memorial Lincs.

E=Cum-WeLa, NorDurYor, CheShHeMon, Li NSEss, De-No Staf-Lei-R,

Vor-Wá-No-B-Hun-C, Gl-O-Buc-HerM, Corn-Dév-SoDo, Wilt-BerHa-SurS-Ken.

The division of England according to the Circuits:

Cor-Dé-Dor-Ham, Som-Wilt.

| Ber-O-Glouce-Mon, Wórcest-Here-Shrop-Staff. Hert-Ess-Ken-Sur-Sus.

MIDLAND. North-Rut-Linc, Derby-No-Leice-War.

NORFOLK.

Nórf-Su-Cam, Hun-Béd-Buck.

NORTHERN.

Yor-Dur-Nor, Lánca-We Cumber.

II. WALES is divided into two general parts:

North Wales-containing Anglesey, Caernarvonshire Denbighshire, Flintshire, Merionethshire, Montgo mervshire.

South Wales - containing CARDiganshire, RADNO shire, Pembrokeshire, Carmarthenshire, Brecknock

shire, GLAMorganshire.

The Memorial Line.

W=Ang-Cá-De-Fli-Ch, Meri-Mont-Sh; Card-Radr Here, Pem-Ca-BreGlam-Mon.

N. B. The italic letters denote the adjoining counties of England: as Ch Cheshire, adjoining to Flintshire Sh Shropshire, adjoining to Montgomeryshire; Hen Herefordshire; Mon Monmouthshire.

III. SCOTLAND is divided into two general parts:

North Scotland, or Highlands, beyond the river Taycontaining thirteen counties, among which are STRATE navern, CAITHNESS, SUTHErland, Ross, Lochaba Murray, Braidalbin, P-erth.

South Scotland, on this side the Tay-containing twent counties, some of which are Argyle, Fife, Lothian

AIRe, GALloway.

The Memorial Line.

SCOT=Strath-Caith, SúthRoss, Loch -Mur, BraiP Arg -Fi, Lo-Air, Gal.

IV. IRELAND is divided into four larger parts of provinces:

ULSTer to the north MUNSTer to the south

LEINster to the east Connaught to the west

The Memorial Line.

IREL=Ulst, Léin-Con, Munst.

TABLE VI.

CHIEF CITIES AND REMARKABLE PLACES.

IN ANCIENT FRANCE.

A Miens ch. town in Picardy
P-aris in the Isle of France
Rouen in Normandy
FROYES
CHEIMS
In Champagne
RENnes in Bretagne
Poictiers in Orleannois

Bourdeaux in Guienne
Thoulouse in Languedoc
Grenoble in Dauphiny
Dijon in Burgundy
Aix
Marseilles
Orange

In Provence

The Memorial Lines.

AmPica, PIsle, RouNor, Troy-RheiCham, RénBreta, PoictOrl,

Bourd Gui, Thou Lang, Gren Dau, Dijón Burg, Aix-Mar & Or Prov.

IN THE NETHERLANDS.

MIDdleburg in Zealand
Deventer in Overyssel
LEUWARden in Friesland
BRUssels in Brabant
BRUGes in Flanders
CHARLEROY in Namur

DUNKIRK DOUAY In Flanders

MONS
CAMBRAY
LOO in Guelderland
ANTWERP in Brabant

The Memorial Lines.

Mid Zea, Dev Overyss, Leuwár Fries, Brús Braba, Brug Flan, Charl Nam, Dunk-Dóua Fland, Mon-Camb Hain, Loo Guel & Ant Brab.

IN GERMANY.

HAMBURG ch. towns in HANOVER L-ow. Saxony WITTENBERG in UP. Saxony HEIdelburg in Lower Cologne Rhine Munich in Bavaria Augsburg in Suabia

FRANCfort in Upper Rhine
NuRemburg in Franconia
Munster in Westphalia
STRASBOURG { in Upper
Rhine
CLEVES in Westphalia
VIENNA in Austria
D 3

The Memorial Lines.

Hamb-Hano Sal, Wit Sup, Hei-Col Rhilo, Mun Bavar Aug Suab,

Franc Rhup, Nur F, Muns West, Stras Rhup, Clev Westphe Vienn Aust.

IN SPAIN.

Bilboa in Biscay Compostella in Gallicia Seville in Andalusia Barcelona in Catalonia Oviedo in Asturia PAMPELuna in Navarre SARAGOSSA in Arragon Burgos in Castile vetus Madrid in Castile nova Tortosa in Catalonia

The Memorial Lines.

Bil Bis, Compos Gal, Sev Andal, Bar Catal, Ov Ast, Pampel Nav, Sarag Ar, Burg Cas-vet, Mad Ca-no, Tort Cal

IN TURKEY IN EUROPE.

Sophiach. town in Bulgaria
Belgrade in Servia
Serato in Bosnia
Spalatro in Dalmatia
Salonichi in Macedonia
Carlstat in Croatia

The Memorial Lines.

Soph Bul, Belg Servi, Serai Bos, Spal Da, Salon Mac, Carls Cro, Tergó Walach, Herm Transyl, Choczi Mo, Const Rom.

TABLE VII.

REMARKABLE PLACES (SPARSIM) IN EUROPE.

FONTARAbia in Biscay
RATISDON in Bavaria
PADua in Venice
Nimeguen in Guelderland
OLIVA in Prussia
Constance in Suabia
AIX-LA-CHA- in Westpelle
pelle phalia
Montrelier { in Languedec

CASSEL in Upper Rhine
ARCHangel in Dwina
HOCHStet
BLENHEIM
St. OMERS in Artois
VERDEN
BREMEN
In Lower Saxons
MAGDEBURG in Lo. Saxons
CALais in Picardy
BADEN in Suabia

Benevento in Naples BREDa in Brabant Cadiz in Andalusia AGINCOURT in Artois MITtaw in Courland MALAga in Granada TRIERS in L-ower Rhine MAESTrich in Limburg HAVREin Normandy De-Grace VALEDOLID in Old Castile College in New Castile MEAUX in Champagne Soissons in *Isle* of France Avignon in Provence NASSaw in Upper Rhine CITADELla in Minorca CAGliari in Sardinia PALERMO in Sicily LESIWCK in Jutland Bastia in Corsica CRACOW in Poland P-arva Warsaw in Mazovia BERGEN in Norway Copenhagen in Zealand VISMes in Languedoc CHRISTiana in Aggerhuys CURIN in Piedmont RIGA in Livonia Rochelle in Orleannois Fottenburg in Gothland JUNDen in Sconen CRESSY in Picardy ALAMANCa in Leon ZELL in Lower Saxony CHAMberry in Savoy DANTZIC in Poland in Sweden TOCKHOlm P-roper PRESburg in UP. Hungary Istria

Cordova in Andalusia Carthagena in Murcia (in Franché Besançon Comté LIEGE in Westphalia Cremona in Milan (in the Penin-Batchiserai < sula of Little Tartary Nancy in Lorrain LEGhorn in Tuscany FLORence Geneva in *Switz*erland Lisbon in Portugal Ragusa in *Dal*matia Breslaw in Silesia Prague in Bohemia Stetin in Pomerania Perpignan in Rousillon TRENt in Tyrol STRASBurg in *Alsa*ce Pola in Istria Posega in Sclavonia Peterwa-RAdin Berlin in Brandenburg DRESden in Saxony LEIPSIC Ravenna in Romagna LORETTO in Ancona

Rousillon { part of Catalonia | lonia | Sclavonia of Hungary | Tyrol of Austria | Pomerania | Brandenburg | Saxony | and { of the late Venetian | territories | Pomerania | Pomerania | territories | Pomerania | Pome

BERRY ANJOU part of the of Orleannois Papacy or states of the Holstein Saxony Romagna Saxony Church Capitanate part of Naples Limosin part of Guienne

The Memorial Lines.

Fontára Bisc, Rati Bav, Pad Ven, Nim Guélder, Oliv Pru Const Suab, Aix-la-Cha West, Montpel Lang, Cass Rhu & Arch Dwin,

Hoch-Blenhe Bav, Omer Art, Verd Brem Salo, Magd Sc

lo, Cal Pic,

Bad Suab, Benven Nap, Bred Brab, Cad Andal, Aginc Ar Mit Courland, Mala Gran, Trie Rhil, Maest Limbur, Ha vred Norm,

Valedol OC, Tol New C, Meaux Cham, Soiss Isle & Avig Pro Nass Rhup, Citadel Min, Cag Sard, Paler Sici, Sles Jut, Bast Corsic, Craco Polp, Wars Mazov, Berge No, Cop Zea

Nism Langued, Christ Agg, Turín Pied, Riga Li, Roch Or GoG, Lund Scon, Cress Pic, Salamanc Le, Zell Sal

Cham Sav.

Stock Swep, Prés-up Hung, Cord Andal Dantzíc Pol, Cart Mur,

Bes Fran-Com, Liege West, Crem Mil, Batch Tarta-p Nan Lor.

Leg-Flor Tusc, Gen Switz, LisP, Rag Dal, Bres Sil Prag Bo,

Stet Pomeran, Perp Rous, Tren Tyr, Strasb Alsa, Pol Isti Pos-wara Sclav, Berl Bran, Dres-Leip Sax, Rav Ro, L

Rous Catalon, Sclav Hung, Tyrol Aust, Pom-Brand-Sa Su Ist Ven,

Anc-Rom Pap, Limo Guienn, Berr-Anj Orl, Holst Sal Cap Nap.

TABLE VIII.

SOME CHIEF CITIES AND REMARKABLE PLACES IN ASIA, AFRICA, AND AMERICA.

Pekin capital of China AGRa in India

CHAMBalu in Tartary Ispahan in Persia

ALEPPO capital of Syria CAIRO in Egypt Fez in Barbary DAAra in Bildulgerid Tombute in Negroland in Æthiopia Monomotopa Dangola in Nubia CHAXumo in Æthiopia INF. S. FE in Granada S. Salvador in Brazil

S. JAGO in Chili

Assumption in Paraguay

QUEBec in Canada in Pennsyl-

РигLadelphia James Town in Virginia Baltimore in Maryland

Portroseway ASTRAChan in Tartary Nicosia in Cyprus Mousul in Diarbec BAGdat Smyrna in Natolia Azov in Circassia

NATolia parts of Syria Turkey ${
m D}$ I arbec in Asia Turcomania MINGrelia of Georgia Caramania of Natolia Amasia largely NATolia Prop. ALADulia

The Memorial Lines.

Pek Chín, Agr Ind, Chamb Tart, Isp Pers, Alép Syri, Cair E, Fez Barb, Daa Bildul, Tomb Neg, Monom Æthsupe, Dang-Nub.

Chax Æthinf, Fé Gran, Salv Braz, Jagó Chili, Ass Par, Queb Canadá, Phil Penns, Jam Virgin, Balt Mary, Port-No-Sc.

Astrac Tart, Nico Cyp, Mous-Bag Dia, Smyr Nat, Azov-Circ,

Nat-Syri-Di-Turc Tur, Ming Georg, Car-Amás-Nat-Alád-Nat.

TABLE IX.

LATITUDE AND LONGITUDE OF THE MOST REMARKABLE PLACES.

To the beginning of the name of the place is added a technical ending, consisting of three or four letters, the two first whereof denote the latitude, the other the longitude: thus,

Stocklou-ak, i. e. Stockholm in the 59th degree of

latitude, and 18th of longitude; lou standing for 59, ac cording to the general key, and ak for 18. But this i not the exact longitude and latitude of the place, becaus no minutes are taken notice of, which would perhaps b a nicety not worth remembering: but that the latitude i between 59 and 60, and the longitude between 18 and 19. And it is farther to be observed, that if of the two letter which signify the longitude and latitude, the first is consonant, as in lou, in that case, though the longitude &c. is between 59 and 60, yet it is nearer to 60 than it i to 59, and consequently 59 degrees 30 minutes at least if not more. If the first letter is a vowel, as in ak, though it is between 18 and 19, yet it is nearer to the lesser number, and consequently 18 degrees and under a half as the true longitude of Stockholm is 18 degrees 22 min. the true latitude 59 degrees 30 minutes

3										
									Lat.	Lon
+Bergen—Bersy-l .		•	•	•	•	•	•	•	60	É
STOCKholm—Stocklou-	ak	•	•		•			•	59	18
Moscow-Moslu-tei.		•		•	•	•	•	•	55	38
Corenhagen—Coplu-be	•	•	•		•		•		55	12
Paris-Parfk-e.	•							•	48	2
CRACOW—Cracúz-ez.	•		•	•	•			•	50	20
Vienna-Viok-ap			•	•	•			•	48	17
MADRId-Madroy-t .	•	•		•					40	3
Rome-Romfá-be.							•	•	41	12
Constantinople-Conob			•	•			•	•	41	31
PRAGue—Pragly-bo.	•	•		•	•		•		50	14
DANTZic-Dantzuf-bei		•		•	•	•		•	54	18
BASIL—Básilfoi-p .	•	•	•	•		•		•	47	7
BRUSSels-Brusly-o .	•	•	•		•	•	•		50	4
†GIBraltar—Gibtau-s	•	•		•	•	•	•		36	6
+Smyrna—Smik-dou.		•			•	•	•		38	29
Troy-en				•		•	•		40	29
†JERUsalem—Jeruta-ts									31	36
Journal Coldination	•	•	•	•	•	•	•	•	OL	30

^{*} This accuracy hath not been altogether observed in those places which have this mark (+) placed before them; the assigning to them their respective degrees of longitude and latitude being intended only to enable the learner to remember in what part of the globe they are situated.

	GEO	GJ	RAF	H.	ICA	•					63
										Lat.	Lon.
A LEPpo-Alepís-to	i .	0		•	•	•				36	38
m Rho to i $ m tho to i$ $ m to i$	e .					•	•	•		37	32
BABylon—Babit-	fo.	•	•			•		•		33	44
ATHens—Athik-el				•			•			38	25
Da-Idil-doi	•	•	•		•					35	27
WARSaw-Warsúc	d- eb	•	•	•		•	•		•	52	21
LEXandria—Alex	ib-if	•	•							31	34
. HELens—Helbu	-p.	•	•	•			•	•		15	7
Isbon—Listei-bz.	•	•	•	•	•		•		•	38	10
VAPLes-Naplob-b	u.	•	•	•	•	•	•	•	•	41	15
IESSina-Messik-l	bau	•	•	•	•	•	•	•	•	38	16
CARTHage - Cart	h <i>ti-b</i> a	!/	•	•	•	•	•	•	•	33	10
NANcy-Nanfei-s		•	•	•	•		•			48	6
Ispahan—Ispte-on		•		•	•		•	•	•	32	49
IGRa—Agrék-oit.	•		•		•				•	28	73
IAM—Siamaf-ga.	•	•	•	•	•	•	•	•	•	14	100
JAPan—Japto-bay		•	•	•			•	•	•	34	110
Formosa—Forma	li-g	•	•		•	•	•		•	23	100
AsTRachan—Astr	cop-lo	ıu	•	•	•	•	•	٠		47	56
PEKIN-Pekinoz-b	ap	•	•	•	•	•	•			40	117
Fort St. George-	-Ġëo	bí-	sou	•	•	•	•	•	•	13	69
Spirsbergen—Spi	tpi-so	าเ	•		•	•	•	٠	•	73	69
RCHangel - Archs	ô-fe	•	•	•	•	•		•	•	64	42
ENGal—Bengdá-o	ul	•	•		•	•	•	•	•	21	95
ENice—Venfl-ad	•	•	•	•		•	•	٠	•	45	12
ATRO-Cairdonail										90	35
EIPsic—Leipsub-a	id.	•	•		•	•	•		•	51	12
HECla-Hecsl-at	•	•	•		•	•	•	•	•	65	13
NINeveh-Ninto-	fe.	•	•	•	•	•	•	•	•	34	42
Porto Bello—Be	l <i>bá-k</i>	и	•	•	•	•	•		•	11	85
Porto Rico-Rico	éz-lou	t	•	•	•	•	•	•	•	20	59
HECla—Hecsl-at NINeveh—Ninto- Porto Bello—Be Porto Rico—Rico BERMudas—Berm	ita-lo	ш	t	•	•	٠	•	•	•	31	5 9
J-amaica—Jak-ky	•	•	•	•	•	•	•	•	•	18	80
TERCERa chief of	the .	Az	ores	s I	.—′	Гe	rcer	ip-	el	37	25
Madeira Isles—M	Iadit-	-ed		•	•	•	•	•	٠	33	22
Barbadoes—Barb Erro one of the C	u-la	•	•	•	•	•	•	•	•	15	51
ERRO one of the C	anar	y I	sle	3-	Fe	rre	k-ai	c	•	28	18
Quebec-Quop-pu	3 .	•	•	•	•	•	•	•	•	47	75
N. B. The first n	neridi	ian	is	fix	ed a	at I	Lon	do	a,		

It may be convenient to remember the exact longitud and latitude of some particular places; as,

*	Lat	Deg.	Min.	Lor	n. Deg.	Min.
London-Lónla, ib						
FERRO Isl.—Ferrép, op-ap,	, il	27	47		17	351
Oxford—Oxlá, fs-b, al.						
Rome—Rómfa, lo-bé, dou						

The Memorial Lines.

Bersy-l, Stocklou-ak, Moslu-tei, Coplu-be, Parfk-e, Cracúz-ez, Viok-ap, Madroy-t, Romfá-be, Conob-ta, Pragly-bo, Dantzuf-bei, Básilfoi-p, Brusly-o, Gibtau-s, Smik-dou, Troy-en, Jeruta-ts, Alepís-tei, Rhotoi-t Babit-fo,

Athik-el, Idil-doi, Warsúd-eb, Alexib-if, Helbu-p, Listei-bz Naplob-bu, Messik-bau, Carthti-by, Nanfei-s, Ispte-on, Agrék-oit, Siamaf-ga, Japto-bay, Formdi-g, Astrop-lau, Pekinoz-bap, Gëobi-sou, Spitpi-sou, Archsé-f Bengdá-oul, Venfl-ad, Cairdou-il, Leipsub-ad, Hecsl-a Ninto-fe, Belbá-ku, Ricéz-lou, Bermta-lou, Jak-ky, Tercerip-el, Madit-ed, Ferrek-ak, Barbu-la, Quop-pu.

Lónla, ib; Ferrép, op-ap, il; Oxlá, fs-b, al; Rómfa, le bé, dou.

TABLE X.

DISTANCE OF CHIEF CITIES, &c. FROM LONDON, IN ENGLISH MILES.

To the beginning of the name of the place there ar two or three letters added, which are to be supplied wit a cypher at the end; it being thought sufficient to give round number, instead of being too exact, especially in matter wherein the best geographers themselves are no agreed: as,

Madreis — MADRid distant from London 86,sc. 86 miles. Copenhagen—Copsa, distant about 61, sc. 610 GENEVa-Genevos, distant 46, sc. 460 miles; and so o

the rest, only Paris-Pardel, 225.

Note, That the computations are made at the rate of statute miles to a degree, which is nearest the truth, d are therefore about one part in seven more than in r. Templeman's tables, who computes by geometrical iles of 60 to a degree.

DISTANCES FROM LONDON.

Eng.	Miles.	Eng. Miles.
A Ris—Pardel	225	Prague—Praul 650
o me-Roul	950	GIBRaltar—Gibrabs . 1160
A DRid—Madreis .	860	WARSaw-Warsnu . 956
IENna—Vienke	820	Stockholm—Stoup . 976
openhagen—Copsa	610	DANTZIC-Dantziky 800
ENEVa-Genevos .	460	Constantinople—
lo 3cow—Moscass .	1660	Constasg 1600

DISTANCES FROM JERUSALEM.

A Bylon—Baboky . 480	DAMascus—Dam-
	buz 150
	Antioch—Antig . 300
rom DAN to BEERsheba-	-Dan-a-Béerdoz 240

The Memorial Lines.

ardel, Roul, Madreis, Vienke, Copsa, Genevos, oscass, Praul, Gibrabs, Warsnu, Stoup, Dantziky, Constasg.

aboky, Nazky, Samol, Dambuz, Antig,—Dan-a-Béerdoz.

TABLE XI.

THE PROPORTION OF THE COUNTRIES OF EUROPE TO GREAT BRITAIN, THAT ISLAND BEING THE UNIT.

ussia—Russ-		Poland-Polt,in		3 ,39
az,bi	10 ,13	Turkey—Turt,ak	•	3,18
ERMany—Germ-		Spain—Spa,ka.	•	1,81
t,ut	3,53	France— Fra,p .	•	1,7
weden—Swi,ss .	3,66	*ITaly—Itb,an.		1,19

^{*} With Sicily, Corsica, and Sardinia.

*DENMARK—Dén-		United Provinces	•		ı
mab,on		—Un-Pr,ab.	•		3
Portugal—Por,ts.		SWITZERland†-			
Spanish N-ether-		Switzer,boi .			3
lands†—Span-N,ak	,18	Britain	•	1	3
mı	71.47	. , , .			1

The Memorial Lines.

Russaz, bi, Germt, ut, Swi, ss, Polt, in, Fra, p, Spa, Lurt, ak,

Por, ts, Span-N, ak, Un-Pr, ab, Switzer, boi, Dénmab, Itb, an.

EXPLANATION.

Germt, ut—GERMany is to Great Britain as 3,53 1, i. e. three times as big and a little above half as b United Provinces—Un-Pr, ab, as, 11, or very little abo

a tenth part; and so of the rest.

Note, That a degree is esteemed equal to 60 GEOM trical miles, $69\frac{1}{2}$ English statute miles, 15 GERMAN miles common French leagues, 480 Greek STADIA, 16 PE sian PARAsangs, 12 (or, according to some, 8) Egypti scheni.

The Memorial Line.

 $Deg = G\ddot{e}omauz = Gerbu = Frel = Stadoky = Pers-parab = Schad.$

TABLE XII.

SITUATION OF ISLANDS.

1. EUROPEAN ISLANDS.				
In the	Iceland west of Norway—IceNor			
Northern Ocean	Britain and Ireland			
In the Baltic .	ZEALAND E. of Jutland—FunZea Funen Jut			
In the Mediterranean .	MINORCA E. of Valencia— MAJORCA MiMajorc Y Valence			

Including Norway and Iceland.Now in possession of France.

n the leditermean

Corsica south of Genoa-CoSardGen SARDinia . Sicily south of Naples-SiciNa CANDia south of the Archipelago - Cand-Archpel CORFU west of Butrinto—Corf But CEPHAlonia W.) of the Morea—Cepha-ZantCe Mo CErigo S. . NEGropont east of Livadia—NegLiv

The Memorial Lines.

ce Nor, Fun Zeal Jut, Mi Majorc Y Valenci, Co Sard Gen, ici $\it Na$, Cand $\it Archpel$, Corf $\it But$, Cepha Zant Ce $\it Mo$, Neg $\it Liv$.

II. ASIATIC ISLANDS.

Japan east of North China—Japnor Ch FORMOSA E. of South China—Formósou Chin PHILIPpine Islands east of the Eastern Peninsula-PhilipeastPen Ladrone Isl. E. of the Philippines-LadPhi 1 the Molucca Islands east of the Eastern Peninastern sula-Molúc P-east cean Isles of the Sound south-east of the Eastern P-eninsula—SoundP-east Maldives S.) of the Western Peninsula-CEYlon E. | Mal-CéyP-west the RHODES editersouth of Natolia—Rhod Cyp Nato Cyprus nean STALimene the . west of Natolia north to south-MEtelin rchi-StalMeSciSámNat lago SAMOS . The chief of the Molucca Isles are Celebes or Macas-

r, Gilolo, Ceram, Amboyna. The chief of the Philippines are Manilla and Min-

nao.

Isles of the Sound, the chief are Sumatra, Borneo, d JAva.

The Memorial Lines.

Japnor Ch, Formósou Chin, Philipeast Pen, Lad Phi, Molúc P-east,

Sound P-east, Mal-Céy P-west, Rhod Cyp Nato, Stál Me Sci Sám Nat.

Mol=Cele-GilCér-Amb. Phil=ManMind. Soun =Suma-BornJay.

III. AFRICAN ISLANDS.

MADAGASCAR, or the Isle of St. Laurence, E. In the the south part of Zanguebar-Madgasc Zang Æthi-Zocotra at the east end of the coast of Ajanopic ZocAjan Ocean St. HELens west of Congo—HelCongo (Isles of Cape VERD W. of Negroland-Verd N Atlan- CANARY Isles west of Bildulgerid- Canár Bil MADEIRa Isles west of Barbary—MadéirBar Azore Isles west of Portugal—AzPort Ocean MALTA south of Sicily—MaltSic PHAROS at the mouth of the port to Alexan dria—Phar Alexan

The chief of the CANary Isles are FERRO or HIER TENERIFE, CANARY.

The chief of the Azores, TERCEra.

The chief of the MADEIRA Isles, Porto Santo an Madeira.

The Memorial Lines.

Madgasc Zang, Zoc Ajan, Hel Congo, Verd Ne, Canár Bila Madéir Barb, Az Port, — Malt Sic, Phar Alexan.

CAN = FerHi-TeneCan. Az = Terce. MADEIRA = PoSanMad.

IV. AMERICAN ISLANDS.

NEWFoundland east of Nova Scotia—NewfNovScot California west of New Granada—CaliGran ARIBbee Isles east of the Antilles—Carib Ant

ucayos Isles east of Florida—LuF

ERMudas, or Sommers' Isles, E. of Carolina—Berm Car NTILles Isles soul of Lucayos Isles - Antil Luc

The chief of the Lucayos Islands are Bahama, Lu-

yone, Providence.

The chief of the CARIbbee Islands are BARBadoes, d the Leeward Isles, viz. St. Christopher's, Antigua, OBago, &c.

The chief of the ANTILLes Islands are Cuba, JAMaica,

Ispaniola, Porto Rico.

The Memorial Lines.

ewf Nov Scot, Cali Gran, Carib Ant, LuF, Berm Car, Antil Luc.

uc=Ba-Lu-Prov. CARI=Barb, Chr-Ant-Tob. An-TILL=Cu-Jam-Hisp-Ric.

TABLE XIII.

THE MOST REMARKABLE OF THE LESSER BRITISH ISLANDS.

north of Scotland-Ork-Shetno-Sc RKney HETland OLY Island east of Northumberland—Holy North Anvey Island near the Essex—Canv Ess HEPpey Isl. \ mouth of the HANet \ Thames in Kent-Shep-Than Ken NGlesey west of Caernarvonshire—Ang Caern AN west of Lancashire—ManLan AMSEY over against St. David's Point in Pembrokeshire—Ram Davi-Pem 'ight (Vectis) south of Hampshire—Vecs-Ham vernsey on the coast of Normandy—Guer-Jerco-Nor ERsey

Testern Islands (EBudæ) west of Scotland-Ebwe-Sc

The Memorial Lines.

Ork-Shetno-Sc, Holy North, Canv Ess, Shep-Than Ke & Ang Caern,

Man Lan, Ram Davi-Pem, Vecs-Ham, Guer-Jerco-No.

TABLE XIV.

ANCIENT EUROPE, ASIA, AND AFRICA.

I. Ancient EUROPE, by way of accommodation to to present divisions of it, may be divided into,

1. Northern—containing Scandinavia, Feningia, pa of Sarmatia, Cimbrica Chersonesus, Codanonia Insul

2. Middle—containing Germania, the rest of S-armat G-allia Transalpina or Celtogalatia, RHŒtia, V-indelic Noricum, part of PAnnonia, D-acia.

3. Southern—containing Iberia, Italia, the rest P-annonia, Illyricum, Mæsia, G-ræcia, Thracia.

The Memorial Line.

EUR=Sca-Fe, Sarm, Cimb-Cod; Ger-S, G-Rhœ-No-Pa-D; Ib-lta-PIll-MœG-Th.

II. ASIA Antiqua may be divided into,

1. Northern—containing SCYTHIA Asiatica, Sogdiar

Colchis, Iberia, Albania.

2. Middle—containing Asia Minor, Armenia, Syr Mesopotamia, Assyria, Media, Hyrcania, Bactriar Arachosia, Babylonia, Susiana, Parthia, Arl Drangiana, Persis, Caramania, Gedrosia, Non part of India, Serica, Sinæ.

3. Southern—containing Anabia, the two P-eninsu

of India.

The Memorial Lines.

AS=ScythiSogd, Col-Ib-Alb; Asm-Arm, Sy-Mes-A Med-Hy-BactArch,

Bab-Sus-Parth-Ari Dian, Pers-Car -Gedro, NInd-Sin; Ar -P-Ind.

III. AFRICA was anciently divided into,

1. Northern—containing Mauritania, T-ingitania, and Esariensis, Numidia, Africa P-ropria, Libya (comchending Cyrenaica and Marmarica), E-gypt, GETuli, Aramantes, Nasamones, Psylli.

2. Middle—containing LIBYa Deserta or Interior, comehending the ATLANTES, PHAUrusii, NIGritæ, NUBia,

THiopia.

3. Southern—containing the Lucæthiopes, Erembi Troglodytæ, Blemmyes.

The Memorial Lines.

F=MauT-Cæs-Numid-AfP-Liby-(Cyr-Mar)-E,
GætGara-NasPsyl;
bydes = AtlántPhauNig-Nub-Æth; Léucæth-EremBlem.

TABLE XV.

ANCIENT ITALY AND GREECE, ASIA MINOR, SYRIA, AND PALESTINE.

I. Ancient ITALY may be distinguished into two neral parts—Gallia Cisalpina to the north, and Italy, imarily so called, to the south.

The several people of Gallia Cisalpina were these:

* Ligures, Taurini, Segusiani, Salassi, Lepontii,
uganei, Rhæti, Carni, Istri, Veneti; (south of the
-o these) A-nanes, Boii, Lingones, Senones; (north
the Po these) Libici, Lævi, Insubres, Orobii, Ceno-

ini.

Italia, primarily so called, or the south parts of Oldaly, comprehending these following countries and people: †ETRUria or Tyrrhenia, Sabini, Latium, Campania, centini, G-ræcia Magna, ‡Umbria, Picenum, V-estini,

* Lying in order along the Alps.

[†] Lying in order on the Mare Inferum.
‡ Lying in order on the Mare Superum.

Marucici, Frentani, Apulia, *Marsi, Peligni, Sa Nium, Hirpini.

The Memorial Lines.

CIS = Lig-Tau-Sé-Sa-Lep-Eug-Rhæt-Car-Is, Vén (A-Bo-Ling-Sen;

Lib-Læv-Ins-Oro-Cen.

IT = Etru-Sab-Lá-Ca-Pi-G, Um-Pí-V-Ma-Fr-A Mars-PeliSamn-Hirp.

II. Ancient GREECE was usually divided into figeneral parts, viz. Macedonia, Thessalia, Epirus, Helor Græcia, properly so called, and Peloponnesus.

The Memorial Line.

GRÆ=MáTh, Epir-HelPel. ----

1. Peloponnesus was divided into six parts or regio viz. †Achaia, Elis, Messenia, Laconia, Argia or Agolis, ¡Arcadia.

The Memorial Line.

- Pelop = Ach-Eli-Méss-Lac-Ar-Arcad.
- 2. Epirus contained these people and countries, Chaones, Dryopes, Thesprotii, Cassiopæi, Ampleochi, Almene, Molossi, Acarnania.

The Memorial Line.

EP = Chao-Dry, Thesprot-Cass-Amphiloc, Al-M

3. Hellas, or GRÆcia PROPRIA (called also Acha was divided into eight parts, viz. Doris, Locris-Einemidia, Ætolia, Locris-Ozolæa, Phocis, BŒo Megaris, Attica.

The Memorial Line.

GRÆ-PROPRI = Dó-Locr Ep, Æto-Locr Oz-Pho-l Meg-Att.

^{*} In the inland parts.

⁺ Lying in order on the Ionian, Ægean, and Cretan sea. In the inland.

4. Thessalia contained these several parts, viz. Pe-Asgiotis, Estiotis, Thessaliotis, Phthiotis, M-agnesia.

The Memorial Line.

THESS = Pelas Est Théss-Phthi-M. ---

5. Some of the more remarkable people and countries of MACEdonia were, TAULantii, PÆOnes, MYGDONIA, EMATHIA, AMPHAXITIS, PIETIA.

The Memorial Line.

— MACE=Taul-Pæo-Mygd-Æmath -AmphPi.

Asia Minor comprehended Asia Propria, BITHynia, Pontus, Galatia, *Cappadocia:—Lycia, Pamphylia, Illicia.

The Memorial Line.

Asm=Asp-Bith-Pó-Ga-Capp: Lyci-Pamphy-Cil. ——

Asia Propria contained Phrygia Minor, Mysia Minor, Mysia Major, Æolis, Ionia, Lydia, Phrygia Major, Laria, Doris.

The Memorial Line.

sp = Phrygimin-Mysimi-m, Æol Ioni-Lyd-Phryma, CarDo.

GALAtia comprehended Pontus GALAticus, PAPHlaonia, GALAtia Propria, Isauria, and part of Pisidia; ne other part of which, with the regions of Carbalia, as contained in Pamphylia.

The Memorial Line.

- GAL = PonGalaPaphGalap Is-Pis.

Syria was divided into four parts: Syria Propria, HENicia, CELOsyria, PALestina.

PALEstine was distinguished into GALilæa, SAMAria, UDÆa, PERæa or Judæa beyond Jordan, IDUMæa.

The Memorial Line.

YR = SyrpPhœn-Cœlo-Pal. PAL = GálSamaJudæ-Per Idum.

Among the several regions of Cappadocia was Lycaonia.

TABLE XVI.

ANCIENT GALLIA, GERMANIA, IBERIA, BRITANNIA.

1. Gallia was divided by Augustus into four parts of provinces, viz. Gallia Belgica, Gallia Celtica or Lug dunensis, Gallia Aquitanica, and Gallia Narbonensis-

GALL=BelCeltAquiNarb

2. The inhabitants of ancient Germany were compre hended under four general denominations, viz. Ingavone VANDali, Is Tævones, Hermiones-Germ=Ing-Van Ist-Her.

3. IBERIA, or ancient Spain, was distinguished into thre general parts, viz. TARraconensis, Lusitanica, B-œtica-

IBERI = TarLuB.

4. Britannia, according to the last division by the Romans, was distinguished into five parts, viz. VALencia Maxima Cæsariensis, Britannia Secunda, Flavia Cæsa riensis, Britannia Prima—Brit=ValMax, Britse-Fl Britprim.

The Memorial Lines.

GALL=BelCeltAquiNarb. GERM=Ing-Vand Ist-He I = TarLuB.

- Brit=ValMax, Britse-Fla, Britprim.

The Memorial Lines for all the ancient Geography.

EUR=Sca-Fe, Sarm, Cimb-Cod; Ger-S, G-Rhœ-No-Pa-D; Ib-Ita-PIll-M@G-Th.

AS=ScythiSogd, Col-Ib-Alb; Asm-Arm, Sy-Mes-As Med-Hy-BactArch,

Bab-Sus-Parth-AriDran, Pers-Car - Gedro, NInd-S Sin; Ar -P-Ind. AF=MauT-Cæs-Numid-AfP-Liby-(Cyr-Mar)-E,

GætGara-NasPsyl;

Libydes = AtlantPhauNig-Nub-Æth; Léucæth-Erei Blem.

CIS = Lig-Tau-Sé-Sa-Lep-Eug-Rhæt-Car-Is, Vén (1 A-Bo-Ling-Sen;

Lib-Læv-Ins-Oro-Cen. -

IT = Etru-Sab-Lá-Ca-Pi-G, Um-Pí-V-Ma-Fr-Ap, Mars-PeliSamn-Hirp.

GRÆ=MáTh, Epir-HelPel. PELOP=Ach-Eli-Méss-

Lac-Ar-Arcad.

EP = Chao-Dry, Thesprot-Cass-Amphiloc, Al-Mol-Acarnan.

GRÆ-PROPRI = Dó-LocrEp, Æto-LocrOz-Pho-Bæ-

Meg-Att.

THESS=Pelas EstThéss-Phthi-M. MACE=Taul-Pæo-

Mygd-Æmath -AmphPi.

Asm=Asp-Bith-Pó-Ga-Capp: Lyci-Pamphy-Cil.— Asp = Phrygimin-Mysimi-m, Eol Ioni-Lyd-Phryma,

CarDo.

— GAL=PonGalaPaphGalap Is-Pis.

YR = SyrpPhœn-Cœlo-Pal. PAL = GálSamaJudæ-

Per Idum.

ALL=BelCeltAquiNarb. GERM=Ing-Vand Ist-Her.

1=TarLuB.

BRIT=ValMax, Britse-Fla, Britprim.

TABLE XVII.

REMARKABLE PLACES IN ANCIENT GEOGRAPHY.

BDERa in Thracia ERYtus in Phænicia ELICOn in Phocis ALICARnassus in Doris in Asia Minor HERonæa in Bæotia Annæ in Peucetia RBela Assyria RANicus river of Phrygia Eander river of Lydia IGus river of Lusitania sus promont. of Cilicia ATmos one of the Sporades O Lympus Islands LYMpia in Elis E 2

Pylus in Messene MARATHON in Attica Delphos in Phocis Samosata in Comagene Dyrrachium in Macedonia THESSALonica in Amphaxitis NIcomedia in Bithynia Nyssa in Megaris Acroceraunia m. in Epirus CITHæron m. in Bæotia Hymettus m. in Attica Athos m. in Macedonia mountains in PELion

Mantinea in Arcadia EPIDAUrus in Laconia Pella in Æmathia Actium ın Acarnania Ambracia SMYRNa in *Ion*ia EPHesus Pergamus in Mysia Laodicea in Caria SARDIS in Lydia THYAtira PHILadelphia Sardica in Thracia CHALcedon in Bithynia CIRTium in Numidia Illiberis in Hisp. Bætica Ancyra in Galatia GANGra in Paphlagonia SIRMium in Pannonia Neocæsarea in Cappadocia PHARSalia in Thessalia *Philippi in Thracia Leuctra in $B \omega$ otia Clusium in Etruria BAIæ in Campania Tusculum in Latium AQUILEIa of the Carni Edessa in Mesopotamia RHEGium in Calabria Tomi in Masia Damascus in Cœlo Syria Colossæ in Phrygia SAGuntum in Hispania Tarraconensis Brundusium in Calabria Comagene a region of Syrial Propria

Do Done a town of the Molos SPARTa in Laconia Antiochia in Pisidia Antium of the Volsci Amyclæ in Laconia ARIMinum in Umbria Corinth in Achaia CENCHRææ Eleusis in Megaris Acerræ in Campania CHALCIS in Ætolia Corfinium I of the Pe-SULMO (*l*igni Memphis in Inferior Egyp Thebais in Superior Egypt Mycenæ in Argia Patara in Lycia CHALYbes a people of Go latia Nemea in Argia ADRAMYTtium in Mysia CNIdus in Doris in Asia MEDIOLanum of the Insubr SYRACUSE in Sicily Patavia of the Veneti Illium in *Phry*gia Minor CARBALIA in Pamphylia Lycaonia in Cappadocia Cyzicum in Mysia Cuma in *Æolis* Pisidia part in Pamphyli part in Galatia Cures of the Sabini LAVINIUM in Latium ARDea of the Rutuli Portus LIBURNUS in Etru Tegaa in Arcadia

^{*} Why Philippi is said to be in Macedonia, Acts xvi. 12, Wells's Geography, chap. xv., and Pearce on the Epistles.

Lucani in Oenotria BRUTII DENOTria | parts of Græcia MESSAPia (Magna DAUNIA parts of Apulia PEUCETia Equi in Latium Novum HERNI Mutina of the Boii LAVENna in Umbria ALAbri in Messapia ALentini

Volsci in Latium Novum Ausones (Sabæi in Arabia Felix SARACEN NABATHæi in ArabiaPetræa Nomades in Arabia Scenitæ Deserta Tyrus in Phænicia Sidon HIPPO in Numidia PALMyra in Cælo-Syria Nola in Campania TARENTUM of the Salentini

The Memorial Lines.

lbder Thra, Bery Phæn, Helico Ph, Halicar Dor-A, Cher-Bæ,

lan Peucet, Arb Ass, Gran Ph, Mæ Lydi, Tág Lusit, Is Cil, lat Sporad, Olym Elis, Pyl Mes, Marath Attica, Del Pho, amósa Com, Dyrr Mac, Thessal Amphax, Nic Bithy, Nyss-

Meg, cróc Epir, Cith Bæ, Hym At, Ath Mac, Ol-Pel-O Thessal, lant Arc, Epidau Lac, Pell Æmath, Act-Am Acarnan, myrn-Eph Ion, Perg Mys, Laod Car, Sard-Thya-Phil Lyd, ard Thraci, Chal B, Cirt Num, Illib Hisp-Bæt, Anc Gala,

Gang Paph,

rmPan, Neocæs Cap, Phars Thessa, Philip Thraci, Leuc Bæ, lus Etru, Bai Campa, Tusc Lat, Aquilei Car, Edess Mes, heg Calabrí, To Mæs, Dam Cæl-S, Colóss Phrygi, Sag Tar, rund Cala, Com S, Dod Mol, Spart Lac, Antóch Pisid, Ant Vols,

mycLac, Arim Umb, Cori-CenchrAch, Eleus Meg, Acerr-

Camp,
halc Æt, Corfini Pel, Sulm Pel, Memphinfer E, Thebsûp E,
ycen Arg, Pata Lyc, Chaly Gal, Nem Arg, Adramyt Mys,
ni Dor-A, Mediol Ins, Syracu Sici, Pat Venet, Il Phry-n,
arbáli Pamph, Lyca Cap, Cyzi Mys, Cum Æoli, Pis Pam-G,
ar Sab, Lavini Lat, Ard Rut, Liburn Etru, Teg Arc,
ac-Brut Oenot, Oeno Græ-m, Messap Græ-m, DauniPeucét Ap

Æqu-Hern Lat-n, Muti Boi, Ravn Umb, Cala-Sal Me, Vo Aus Lat-n,

Sab-Sáracen Ara-Fel, Nabath Pet, Nom-Scen Arab-Des Tyr-Sid Phæn, Hippo Num, Palm Cæl-S, Nol Campo Tarent Sal.

TABLE XVIII.

THE CORRESPONDENCE OF ANCIENT AND PRESENT GEOGRAPHY

REGIONS AND PROVINCES.

Ancient.	Present.	Ancient.	Present.
(Poland		(Moldavia
SARMatia	Great Tartary	DACIA	{ Walachia
SarmPo-	south part of		(Transilva
Ta-RusL	Russia	LIBURnia	Croatia
	Livonia	Transonm	§ Croatia
CIMBrica Che	er- } Jutland	ILLYRICUM.) Dalmatia
sonesus	Jutland	NT	Bavaria
Insula CODA	-) ~ , ,	Noricum	Austria
1. Nonia	$\left. \begin{array}{c} Zeal \text{and} \end{array} \right $	T 7	(Suabia
	(Norway	Vindilicia .	Bavaria
Scandinavia	and part of		(Grisons
or B-altia	Sweden	R нÆтіа	Tyrol and
Scythia As.			part of Ita
Sogdiana		Helvetii	Switzerlar
A CHaia or He		ALLO Broges	(
Epirus .		Colchis.	Mingrelia
THESSAly .		IBERia)
Mœsia superi		AlBania .	<i>Georgia</i>
	or . B ulgaria	GÆTULia.	Bildulger
PELoponnesu	s . Morea	AFRICA Pro-	
Thracia .	Romania		and Tu
PANnonia	Hungary	*	Fez and
	, •	M A Uritania	Morocco

^{*} Zealand, Funen, and the adjoining isles had the common na of Insulæ Æmodes, and were esteemed isles of ancient Germa being inhabited by the Teutoni, called also Codani.

Ancient.	Present.	Ancient.	Present
Libya Pr	Barca	Numidia Nova	Bildulgerid
Numidia			Zaggiay or
		Sogpiana . {	Lishoo
serta		IBeria	Samin
NIGritæ	Negroland	CANTAbria .	Bione
	(The popin	Arnion	Discay
TAURica	sule of I it	Albion	Britain
CHERSonesus	Sura or Lit-	Ligures .	Genoa
	(tie Lartary	Armenia Maj.	Turcomania
GARAmantes.	Ine deserts	ARMenia Min.	<i>Ala</i> dulia
	ot Zaara	Armenia Min. Mesopotamia	Diarbec .
	F771		

The Memorial Lines.

Sarm Po-Ta-Rus L, Cimb Jut, Codan Zeal, Sca-B Swe-No, Scyth-Sog T,

Ach Livad, Epi Chim, Thess Jan, Mæs Sér-B, Pelo Mor, Th Rom,

Pan Hung, Daci Mol- Wa-T, Libur Cro, Illyri Cro-Dal, Nor Bavar-Aus, Vind Sua-B, Rhæt Gris-Tyr-It, Helv-Swit, Allób Sav,

Jolch Ming, Iber-Alb Geor, Gætul Bild, Africa Trip-Tun, Iau Fez-Mor, Liby Barc, Numid Alg, Lib-des Zara, Nig-

Neg,

aur-Chers Tart, Gara Zaar, Numi-nov Bil, Sogd Zagat, Ib Spain,

anta Bis & Alb Brit, Ligu Gen, Arm Turc-Ala, Mesp Di.

TABLE XIX.

SEAS, STRAITS, GULFS, ISLANDS, RIVERS, TOWNS.

Ancient.				Present.
lare Hyrcanum, or CA	ASP	ium		Sea of Sala or Backu
ontus Euxinus	•	•		Black or Euxine Sea
Gean Sea	•	•	•	Archipelago
Ropontis	•	•	•	Sea of Marmora
'alus MÆOTis				
RETUM GADItanum	•	•	٠	Strait of Gibraltar
osphorus CIMMexius	•	•	•	Strait of Cassa
osphorus THRACICUS	•	•	٠	Strait of Constantinople

Ancient.					Present.
HELLES Pontus	•	•	•		Strait of the <i>Dar</i> danell
Sinus Adriaticus	•	•	•	. (Gulf of Venice
SINUS SALAMinius	•	•	•	. (Gulf of <i>Eng</i> ia
Sinus GANgeticus.	•	•	•	.]	Bay of Bengal
Sinus Persicus .	•	•	•	. (Gulf of Balsora
Sinus Corinthiacus		•	•	. (Gulf of <i>Lepanto</i>
Sinus ARABicus .	•	•	•	. 1	Red Sea
FRETUM SICUlum	•	•	•	. 5	Straits of Messina
Sinus Ambracicus	•		•	. (Gulf of Larta
Mare Ligusticum.	•	•	•	. 5	Sea of Genoa
SINUS MAGNUS .	•	•	•	.]	Bay of Siam
Mare Tyrrhenum	•	•	•		Sea of Tuscany

ISLANDS, RIVERS, AND TOWNS.

Ancient.	Present.	Ancient.	Present.
THULE	<i>Ice</i> land	LEMnos	Stalimene
EBUSUS	Yvica	GADES	Cadiz
BALLONGS (Majorca	CYRNUS	Corsica
BALEares {	Majorca Minorca	SALAmis	<i>Col</i> uri
Ins. Æoliæ.	Lipari Isles	CARPathus .	Scarpanto
I.Fortunatæ	Canaries	TRINACTIA .	Sicily
*Hesperides	C. Verd	CYTHeron .	Cerigo
TABROBana	<i>Ceyl</i> on	M. ÆTNA .	Gibel
Cos	Lango	M.VESUVius	Soma
CRETE		Lacus TRA-	Lake of
Cassiterides	Scilly Isles	simenus	Perugia
77 7 6	Negropont	Rubicon	
CHALCIS 1	regropoiit	Padus or) D.
Ітнаса. 1	le di <i>Comp</i> are	ERIDanus	Po
ÆGINa	Engia		
CERNe †	-Madagascar	Ister	D anube
LEUCas	St. Maura	Bæris	Guadalquive
LESBUS	Metelin	TANAis	D on
Patmos	Palmosa		Volga
Dioscorides	Zocotra	Borysthene	

^{*} Called also Gorgades.
† Madagascar is supposed by some to be the Menuthias of thancients.

Ancient.	Present.	Ancient.	Present.
ARGENTOra-	Starahuma	SAGuntum	Morvedre
tum	Strasburg	SAGuntum CALPE	Gibraltar .
		Colonia	100
Colonia Allo.	C	CoLonia AGRIPpinæ .	Cologne
Colonia Allobrogum	Geneva	Lugdunum	Luons
Rотноmagia .	Rouen		
Tigurum		Lugdunum B-atavorum .	} Leyden

The Memorial Lines.

Casp Sala-Back, Eux Black, Æg Arch, Prop Mármo, Mæot-Zov,

Fret-Gádi Gib, Cimm Caff, Thraci Const, Hellesp Dar, Adrat Ven,

Sin-Salam Eng, Gan Beng, Pers Bals, Si-Corinth Lep, Aráb Red-S,

Fret-Sicu Mess, Amb Lart, Ligu Gen, Sin-Mag Sia, Tyrr-Tusc.

Thul Ice, Ebús Yv, Bale Ma-m, Æo Lípare, Fort Can, Hesp Verd, Taprob Ceyl, Cos Lang, Cret Candy, Cassit Scill, Chalc-Eub Neg, Itha Comp, Ægin Eng, Cern Mada, Leuc-Maur,

Lesb Metelin, Pat Palm, Dioscór Zoc, Lem Stali, Gad Cad, Cyrn Corsic, Sala Col, Carp Scarp, Trinac Sici, Cyth Cer, Ætna Gi, Vesuv Som, Trasi Per, Rubi Fíum, Pad-Erid Po.

Ist Danu, Bæt Gúadal, Tana Don, Rha Volga, Boryst Niep.

Argent Stras, Mog Mentz, Col-All Gen, Rótho Ro, Tig Zur, Sag Morved, Calp Gib, Col-Agrip Col, Lug Lyo, Lug-B Leyd.

N.B. It was thought needless to give more examples, especially of such as now have any likeness or affinity in their ancient names; as Tagus Taio, Sequanus Seyne, Rhenus Rhine, Garumna Garonne, Zacynthus Zante, Melita Malta, &c.

GEOGRAPHIA SACRA.

TABLE XX.

THE PLANTATION OF THE EARTH AFTER THE FLOOD.

AND first, the several countries mentioned in holy Scripture, and denominated from some of the posterity of SHEM, viz.

OPHir, conjectured to be part of the East Indies, viz.

Aurea Chersonesus of the ancients—Oph Chers.

HAVIlah, part of Susiana and Caramania—HaviSus-Car.

Elam, part of Susiana and Persis-ElaSus-Pers.

Asshur, or Assyria properly so called, into which Nimrod is said to come and build Nineveh, &c.—Asshur.

ARAM, part of Syria and Mesopotamia—Arám Sy-Mes. Land of Uz, Judæa Peræa and the adjoining parts of Arabia Deserta and Petræa—UzJúp-Arad.

Lud, or Lydia in Asia Minor—Lud Lyd.

The Memorial Lines.

Oph Chers, Havi Sus-Car, Ela Sus-Pers, Arám Sy-Mes, Asshur,

UzJúp-Arad, LudLyd. ——

Countries mentioned in the Scriptures, and denominated from the posterity of JAPHET, (eldest son of Noah,) whose family is supposed to have peopled, besides a considerable part of Asia, all Europe.

Madai, called by heathen writers Media—Mad.

Gomer, thought to be Albania, on the Euxine Sea-Gomer Alb.

Togarmah, Cappadocia—Toga Cap. Ashkenaz, Phrygia—Ashke Ph. Tubal, Iberia in Asia—Tub Iberi.

Mesнесн, the country lying about the Montes Moschici, between Colchis and Armenia Major—Meshéch Mosch.

Magog, the parts of Scythia adjoining to the plantations of Meshech, Tubal, and Gomer—MagScythi-Mesh.

Javan, ancient Greece-JavGree.

ELISHAh, or the Isles of Elisha, the Isles of the Archipelago—Elish Arch.

KITTim, understood of Italy, Dan. xi. 30, and of Mace-

donia in the book of Maccabees-KittIta.

TARSHish, by Josephus understood to be Cilicia, by others Old Spain, by others Carthage—Tarsh Cil.

The Memorial Lines.

Mad, Gomer Alb, Toga Cap, Ashke Ph, Tub Ibéri, Meshéch Mosch,

Mag Scythi-Mesh, Jav Gree, Elísh Arch, Kitt Ita, Tarsh Cil.

Countries mentioned in Scripture, denominated from the posterity of HAM (youngest son of Noah), whose family peopled Africa, with the adjoining parts of Asia.

Land of Cush, (commonly rendered Æthiopia,)—CushÆthiop,—under which name seems to have been contained most of Arabia, distinguished into several parts, denominated from the posterity of Cush, as,

SHEBA, Arabia Felix—ShebAra-f.

Havilah, part of Arabia Deserta, next to Babylonia — HavAra-d.

Raamath and Dedan, parts on the Persian Gulf—Ra-Déd Pe-Gu.

MIZRaim, or Ægypt—MizrÆ.

LUB or Lybim, that is, Lybia properly so called—Lub. PHUT, the more remote parts of Libya largely taken—Phut Lib.

Land of CANAan lying between the river Jordan and the Mediterranean—CánaJor-M.

Land of HAMATH, north part of *Phæn*icia and adjoining parts of Syria Propria—Hamáth *Phæn-S*.

ARvad, or Arpad, or the Isle Aradus, lying over against

Hamath-Arv Hama.

Land of the Pullistines, Palestine Proper-Phil Pale

The Memorial Lines.

Cush Æthiop, [Sheb Ara-f, Hav Ara-d, Ra-Déd Pe-Gu,] MizrÆ,

Lub, Phut Lib, Cána Jor-M, Hamáth Phæn-S, Arv Hama, Phil Pal.

TABLE XXI.

DIVISION OF THE HOLY LAND.

THE kingdom of JUDAH contained the tribes of

The Memorial Lines.

ISR = A-NeZe -M, IssMa -G, Dan-E -Réub, Si: Ca-Girg-Hit-Hiv, Am-Je-P.

THE DIVISION OF THE HOLY LAND IN THE NEW TESTAMENT COMPARED WITH THE DIVISIONS THEREOF AMONG THE TWELVE TRIBES IN THE OLD TESTAMENT.

GALilee contained A-sher, Nephtali, Z-ebulon, and Issachar—GAL=A-NeZIss.

SAMaria contained Ephraim, with the half of Manasseh—Sam=Man Eph.

Judæa contained DAN, parts of Simeon and Judah,

with B-enjamin-Ju=DánŠi-Ju-B.

Jebusites, and the P-erizzites.

IDumæa contained the south parts of Simeon and J-udah, and some part of the land of E-dom—ID=Si-JE.

PERæa contained R-euben, GAd, and the other half f M-anasseh-Per=MGaR.

The Memorial Line.

FAL=A-NeZIss. SAM=ManEph. Ju=DánSi-Ju-B. ID=Si-JE. PER=MGaR.

The land of EDOM bordered on the south of JudæadómsJud.

The land of the Moabites lay on the north-east of Edom

-Móane Ed.

The land of the Ammonites lay on the north-east of

The Ishmaelites, Madianites, and Amalekites lived comiscuously together, and therefore seem to be denoted the common name of the Mingled People, or Arabians, om ארב miscuit, from whence the Greek appellation "Αραψ, or "Αραβες—Ish-Mad-Am Arab.

The Memorial Line.

dóms Jud, Móane Ed, Amne Moab, Ish-Mad-Am Arab.

TABLE XXII.

E MOST REMARKABLE RIVERS, WITH THE PLACES WHERE THEY RISE, AND THE SEAS INTO WHICH THEY FALL.

IN EUROPE.

The Volga, the greatest river in Europe, rises in ussia, and falls into the Caspian Sea-Vol Rus-Ca. The Danube rises in Suabia, and falls into the Euxine a—Dan Suab-Eux.

The RHINE rises in the country of the Grisons, and

ls into the German Ocean-Rhin Gris-Ger-O.

The Vistula, or Wesel, rises in Poland, and falls into Baltic-VistPo-Ba.

The NIEper rises in Poland, and falls into the Euxine A-NieP-Eux.

The DWINA rises in Russia, and falls into the gulf of the Northern Ocean, called the White Sea—DwinRus-Whi.

The TAIO in Spain falls into the Atlantic Ocean—

Tai Sp-Atl-Oc.

The IBerus, or Ebro, in Spain . . fall into the The Rhodanus, or Rhone, in France Mediterranean $-\mathrm{Ib} ext{-}\mathrm{Rhod}Med$

The Elbe in Germany falls into the German Ocean—

Elb Ger-Oc.

The Oper in Germany falls into the Baltic—OdBalt.

T-igris and EUPHrates rise in Armenia Major, and, having joined streams on the south-east of Mesopotamia, fall into the Sinus Persicus—T-Euph Arm-SiP.

Jordan rising in the border of Nephtali, and passing through the Lake of Gennesaret, falls into the Salt Sea

—Jord Neph-Salt.

GANGES in India falls into the Bay of Bengal Gán I-Beng.

IN AFRICA.

The NILe, running through the middle of Egypt, falls into the Mediterranean—NilMedi.

The Senegal runs through Negroland into the Atlantic

Ocean—SénAt.

The Memorial Lines.

Vol Rus-Ca, Dan Suab-Eux, Rhin Gris-Ger-O, Vist Po-Ba, Nie P-Eux,

Dwin Rus-Whi, Tai Sp-Atl-Oc, Ib-Rhod Med, Elb Ger-Oc, OdBalt;

T-Euph Arm-SiP, Gán I-Beng, Jord Neph-Salt; Nil Medi, Sén At.

ASTRONOMICA.

SECTION IV.

HE APPLICATION OF THIS ART TO ASTRONOMY AND CHRONOLOGY.

mes of the planets, represent the number of miles of the diameters, distances, magnitudes, &c. according to e general key. Where the beginning of the word is chnical, it is composed of the syllables or letters distinished in the tables by small capitals.

TABLE I.

E D-IAMETERS, &c. OF THE PLANETS IN ENGLISH MILES, ACCORDING TO DR. DERHAM'S ASTRO-THEOLOGY.

									English Miles.
una-Lu-ddapu .	•	•	•	•	•	•		•	2,175
ERCURY—Mercú-de							•		2,748
ARs-Mar-dokpu.							•		4,875
Enus-Ve-doneip .						•		•	4,987
ERræ DIAmeter-To									7,967.8
Aturn—Sa-dní-olu.		- 4					•		93,451
piter—Ju-daty-sli		•					٠,		130,653
Lis Diameter—Sol									822,148
The Daine									
1 ho 1 - 191	mati	פיום	α	$\mathbf{H}\mathbf{e}$	IL 1	IK	$\mathbf{R} = \mathbf{R} \cdot \mathbf{R}$	š	

The D-iameters of their ORBits.

ATurn-D-orb-Sátasob-les-teis	•	•	•	.]	1,641.526,386
piter-Ju-rbkoúl-atoth	•	•	•	P1	895.134,000

	English Miles
MArs—Ma-rbese-deid-naz	262.282,91
TERræ—D-orb-Terboid-áze-poul	172.102,79
Mercury—Me-rbsau-sebth	66.621,00
	124.487,11
Luna—D-orb-Lunopóu-nyl	479,90
SATurni Annuli Diam. or the diameter of	
Saturn's ring—Sat-anu-didáz-daul	210,26
Ejusdem LATItudo, or the breadth of	
Saturn's ring——latidoú-eg	29,200
TERRE SUPERficies, or the superficial con-	
tent of the earth—Ter-superann-fof-ezau	199.444,200
Ejusdem Diameter——diapousoi,k	7,96
——Ejusdem Orbitæ Perimeter——per-	
	540.686,22
	Air

THE MAGNITUDES OR SOLID CONTENTS IN CUBIC MILES OF T LARGER PLANETS.

MAGNITudo.

	Cubic Miles.
TERræ—Ter-magnitéso-klaum	264,856.000,0
Solis — Mag-Sólisëoúz-noia	
mil-mil	290,971.000,000.000,0
Jovis - Mag-Jovnez-záb-ezym	920.011,200.000,0
SATurni — Sat-magnitoép-dak	
& izym	427.218,300.000,0

1. The Ambit or Circumference.

						English Mi
Jovis—Am-Jovisipoú-zot		•	•	•	•	. 379,0
T-erræ—Am-Tel-yib		•				. 25.0
Solis—Am-Sole-leid-koit					•	. 2.582,8

The Memorial Lines.

Lu-dapu, Mercú-depok, Mar-dokpu, Ter-diapousoi,k, Ju-daty-sli, Ve-doneip, Sa-dní-olu, Sol-diked-áfei.

D-orb-Sátasob-les-teis, Ju-rbkoúl-atoth, Ma-rbese-deid-naz, D-orb-Terboid-áze-poul, Me-rbsau-sebth, Ve-rbbef-okoí baf, Sat-anu-didáz-daul, —latidóu-eg, D-orb-Lunopóu-nyl, l'er-superann-fof-ezau, —diapousoi, k, — permufy-skau-del.

Ter-magnitéso-klaum, Mag-Sólisëoúz-noia-mil-mil, Mag-Jovnez-záb-ezym, Sat-magnitoép-dak & ízym.

Am-Jovisipoú-zot, Am-Tel-yib, Am-Sole-leid-koit.

TABLE II.

THE DIAMETERS, &c. OF THE PLANETS, ACCORDING TO MR. WHISTON.*

Luna—Lu-d <i>dedi</i> .	•		•	•	2,2237	
MERCURY-Mércú d	epo	p	•	•	2,717	
MARS—Mar-dekbau		•	•		2,816	English Miles
ERra—Ter-diakéze		•	•		8,202	English Miles
Upiter—Ju-dle-led	•		•	•	52,522	of Sudu Paris
Tenus—Ve-donob.	•	•	•	•	4,941	leet.
Aturn—Sa-dot-nel						
ol—Sol-difouf-ázy						

2. Their Distances from the Sun. †

					English Miles.
ATurn — Dista-Satlái-lozth		•	•	•	513.540,000
IARS—Dist-Márke-dodth		•	•	•	82.242,000
IERcury—Dist-Merez-ouleth	•		•	•	20.952,000
UPIter—Jupideiz-uheth			•		280.582,000
L.					

Theory of the Earth, page 31, &c.
The distances of the planets from the Sun, according to Dr.
Derham, are as follow:

TERRA—Dis-Terlom	0
3. The QUANtity of matter in the heavenly bodies is in the proportions following:	in
TERra—Quan-Tera	וס ו
4. The weight (Pondus) of bodies on the surface of	
SATURN—Pon-Sáturuts 536 LUNa—P-Lunsiz 630 Jupiter—Pon-Jukzo,re 804 TERra—Pon-Teraduk,re 1,258 Sol—Pon-Solazth 10,000	
5. The Densities of the same.	
Sol—Den-Solag 10 Luna—Den-Lunoig 70 Terra—Den-Terteip 38 Saturn—Den-Sasy 6 Jupiter—Den-Jups 7	00 37 30

N. B. Mr. Whiston supposes the Sun's parallax to be 32". Dr. Derham (with Cassini) 9 sec. and a half.

The Memorial Lines.

- 1. Lu-ddedi, Mércú-depap, Mar-dekbau, Ter-diakéze, Ju-dle-led, Ve-donob, Sa-dot-nel, Sol-difouf-ázy.
- 2. Dista-Satláï-lozth, Dist-Márke-dodth, Dist-Merezouleth, Dist-Jupideiz-uketh, Dis-Terlom. Dista-Vetou-znauth.

- S. Quan-Tera, Quan-Lun, res, Quan-Jupsy, Quan-Saturek, ro, Quan-Solsau-sny.
- 1. Pon-Sáturuts, P-Lunsiz, Pon-Jukzo, re, Pon-Teraduk, re, Pon-Solazth.
- Den-Solag, Den-Lunoig, Den-Terteip, Den-Sasy, Den-Jups.

TABLE III.

THE PERIODICAL TIMES OF THE R-EVOLUTIONS OF EACH PLANET ABOUT THE SUN ARE AS FOLLOW:

MERCury	in	•	•	•		•	88) 1	3 months.
T			•				224	days,	7½ months
IARS.	•	•	•		•		687	or <	2 years.
UPiter	•	•	•	•	•	•	4,333		12 years.
ATurn	•	•	•	٠	•	•	10,759	, (30 years.

The Memorial Lines.

Ierc-reik, Sat-razpun, Mars-raukoi, Ven-redo, Jup-rottt, Ierc-revo-ment, Ve-r-mep-h, Mars-r-and, Jup-r-anbe, Sat-r-anty.

N. B. Men vel me Mensibus, an Annis, h half.

The Distance of the Earth from the Sun being divided not ten parts, or Decimals, the distance of Mercury from the Sun will be as 4 of them, of Venus as 6, of Mars 15, of Jupiter as 52, of Saturn as 95.

The Memorial Line.

Cer-distaz, Méro, Vens, Marsal, Jupiterle, Saturnoul.

The Sun is distant from the Earth 21,600 Semidiameter of the Earth=86.051,398 miles.

The Moon $60\frac{1}{2}$ semidiameters=239,952 miles

The Memorial Lines.

Dist-Sol-sémida-syz=kau-zub-touk. —— ——Dista-Lun-semsy,ro=din-nud.

The motion of the Sun round its axis is performed i 25 days and 6 hours—Sol-xdu,ro. The motion of Jupite round its axis is performed in 9 hours 56 minutes—Ju-xn,us; that of the Earth in 24 hours; so that the Motio of the Sun round its axis is at the rate of 4,262 miles a hour—Sol-mfese; the Motion of Jupiter round its ax 38,159 miles an hour—Ju-mteibun; the Motion of the Earth round its axis is 1,043 miles an hour—Ter-mázfi.

The Memorial Line.

Sol-mfese, Ju-mteibun, Ter-mázfi, Sól-xdu, ro, Ju-xn, u

The apparent diameter of the Sun in summer (ÆSTAT Solis Diameter) is 31 M-inutes 40 S-econds—Æstat-Sodi-míb-soz.

In winter (HYEme) 32 M-inutes 47 S-econds -

——hye-mid-sop.

If the Sun is supposed to go round the Earth, its diurnamotion will be 22.528,366 M-iles in an Hour—Sol-m hode-lek-taus.

The Memorial Line.

Æstat-So-di-míb-soz, ——hye-míd-sop; Sol-m-hode-lel taus.

The three Comets, whose periods were thought to have been discovered. Derham's Astro-Theology, p. 56.

That which appeared ${1682 \atop 1661}$ calculated to perform its perform its appear again ${175 \atop 1680}$ revolution in ${75 \atop 129}$ again ${175 \atop 225}$

Comske-pu sáub-adou sky-loil: puk pein & eëlu.

The Memorial Lines for all the Table.

Ierc-reik, Sat-razpun, Mars-raukoi, Ven-redo, Jup-rottt, Ierc-revo-ment, Ve-r-mep-h, Mars-r-and, Jup-r-anbe, Sat-r-anty.

er-distaz, Méro, Vens, Marsal, Jupiterle, Saturnoul. Dist-Sol-sémida-syz=kau-zub-touk, Lunsy,ro=din-nud. ol-mfese, Ju-mteibun, Ter-mázfi, Sól-xdu,ro, Ju-xn,us. Estat-So-di-míb-soz, ——hye-míd-sop; Sol-m-hode-lektaus.

omske-pu saúb-adou sky-loil: puk pein & cëlu.

TABLE IV.

CHRONOLOGICAL NOTES.

	d.	h.	m.	8.	th
olar month (MENsis SOLARIS) con-					
sists of—Men-Solarty-by-dou .	30	10	29	0	0
unar Synodal month—Synodén-					
be- f - t	29	12	44	3	0
unar Periodical month - Men-					
peridoi-p-ot	27	7	43	0	0
he cycle of the Moon less (Cyclus					
Lunaris Minor) than 19 Julian					
years—Cyc-Lu-min-ha-doi-ta-ll	0	1	27	31	55
This difference arises to a whole					
day, and consequently throws the					
new moons back a whole day in					
312 years (Annis)—Anntad.]					
he tropical or natural solar year					
less than the Julian (Annus TRO-					
Picus MINor Juliano) 11 M-inutes					
—Trop-min-juli-mab; and con-					
sequently the equinoxes happen a					
day sooner in 130 years—biz.	0	0	11	0	0
he lunar year (Lunaris Annus)—					
Lun-ánilo-hei-mok	354	8	48	0	0

	d.	h.	m.	8,	th
The Epact—Epacaz-da-b	10	21	1	0	- 6
The solar year (Solaris Annus)—					(
Sól-anisû-l-on	365	5	49	0	-1
Between the VERNal and AUTum-					
nal equinox Vern-autaks-hak-					
m <i>iz</i>	186	18	30	0	- (
Between the Autumnal and Ver-					- 1
Nal equinox — Autum-vernboik-					- 1
ab- an	178	11	19	0	•
					- 9

The Metonic period was invented by Meto, in the year before Christ 430, consisting of 19 years-Metfiz bou.

The Calippic period was invented by Calippus, in the year before Christ 330, consisting of 76 years—Calipitz-ois

The Dionysian period was invented by Dionysius Exi guus, An. Dom. 527, consisting of 532 years—Diolep-lid The Julian period was invented by Joseph Scaliger

consisting of 7,980 years—Júl-Scalipóuky.

The vulgar year of Christ was in the fourth of the indiction, the tenth in the cycle of the Sun, the second of the cycle of the Moon.

Indic. erat quarto, decimo Sol, Luna secundo.

TO FIND THE YEAR OF THE JULIAN PERIOD, THE YEARS OF THE OTHER CYCLES BEING GIVEN.

Multiply the cycle of the Sun into 4845—Sol in okol. the cycle of the Moon into 4200-Lunfeg. -the Indiction into 6916—Indicsnas. Divide the Product by 7980—Div-produpouky. The remainder is the year.

The Sunday letters which begin every month are fre quently known by the two English verses,

At Dover dwells George Brown, &2. (see p. 182.)

ut perhaps they may be more readily remembered by the following line, which lays the reader under no necestry of counting the order of the words before he can tell hich month they answer to, every month ending with a letter which belongs to the first day of it.

a Fd Mád Aprig Mayb June Julg Aúc Sef Octa Novéd Def.

MARCH, MAY, JULY, October, have Nones on the 7th ay, and the Ides on the 15th—Mar-Ma-Jul-Oc=Nop-lal. The rest (Cæteri) on the 5th and 13th—Cætl-at. April, June, September, and November, have thirty TRIGINTA) days—Ap-Jún-Se-No=trigint.

The Memorial Line.

Iar-Má-Jul-Oc=Nop-Idal, Cætl-at: Ap-Jún-Se-No = trigint.

In a year (Anno) are 365 Days, 8765 Hours, 525,949 Inutes, 31.556,937 Seconds.

n = Ditaul = Horcipaul = Minlel-non = Secta-lus-outoi.

The motion of the firmament, or fixed stars, is 50" in year, or a degree in 72 years. According to which rate the motion (called the Platonic year) is accomplished 25,920 years—An-Plato=dunez.

The twelve signs: Aries, Taurus, Gemini, Cancer, Eo, Virgo, Libra, Scorpio, Sagittarius, Capricorn, Quarius, Pisces.

r-Ta-Ge, Can-Leo-Vir, Lib-Scór-Sagi, Capric-Aquár. Pis.

The Memorial Lines for all the Table.

len-Solarty-by-dou, Synodén-be-ff-t, Men-peridoi-p-ot, yc-Lu-min-ha-doi-ta-ll, [Anntad], Trop-min-juli-mab, biz,

Lun-ánilo-hei-mok, Epacaz-da-b, Sól-anisú-l-on, Vern-autaks-hak-miz, Autum-vernboík-ab-an.

Metfiz-bou, Calipitz-ois, Diolep-lid, Júl-Scalipóuky.

Indic. erat quarto, decimo Sol, Luna secundo.
Sol in okol, Lunfeg, Indicsnas, Dív-produpouky.

Ja Fd Mád Aprig Mayb June Julg Auc Sef Oc Novéd Def.

Mar-Má-Jul-Oc=Nop-Idal, Cætl-at: Ap-Jún-Se-I = trigint.

An=Ditaul=Horeipaul=Minlel-non=Secta-lus-outoi An-Plato=dunez.

Ar-Ta-Ge, Can-Leo-Vir, Lib-Scor-Sagi, Capric-Aqua Pis.

PONDERA, NUMMI, MENSURÆ.

SECTION V.

THE APPLICATION OF THIS ART TO COINS, WEIGHTS, AND MEASURES.

The beginning of the words is composed of the initial letters; thus At-ta stands for Attic Talent; He-t for Hebrew T-alent; A-d for A-ttic D-rachm; Al-d for Alexandrian D-rachm; He-to for Hebrew Talent of gold (He-t standing for Hebrew T-alent, as before, and o for Or, or gold); Ro-l for Roman L-ibra, Den for Denarius, Shek for Shekel, Gre-f for Grecian F-oot, He-c for Hebrew C-ubit, Ro-fsq for Roman F-oot square, &c.

The *italic* endings of the words represent the number of pounds, shillings, and pence, which are separated from each other by hyphens, or else signified by the roman letters l. s. d. The double lines denote equality: thus A-m= drag = t-ei-n, signifies that an A-ttic M-ina, which is equal to 100 DRachms, was 3 pounds 8 shillings and 9 pence. The letters, though separated, are to be pronounced together; as t-ei-n, tein. The reader is to be reminded here that re signifies $\frac{1}{2}$, ro $\frac{1}{4}$, &c. according to the general rule, page 4. But note, that instead of the fraction re, the letter h is sometimes used for Half, as oikbe-h=7,812 $\frac{1}{2}$, sc. 7,812 pounds 10 shillings.

TABLE I.

HEBREW, ATTIC, BABYLONISH, ALEXANDRIAN MONEY.*	, AND	RO	MA
An Artic Talent=60 M-inas—At-ta=	1.	8.	d
$mauz=ez\acute{a}u$ -su	206	5	0
An A-ttic M-ina=100 Drachms—A-m=	0	0	0
drag = t-ei-n	3	8	8
Sнеkels—Hé-t=mi ly =sh ith = fuz	450	0	0
A Hebrew M-ina=60 Shekels—He-m=	9	0	G
$shauz = lou \dots			
A Babylonian T-alent—Ba-t=e6z-be-s A Babylonian T-alent of Gold—Ba-to=	240	12	6
teilz	3850	0	0
An A-ttic T-alent of Gold—A-to=tig .	3300	0	G
A Hebrew T-alent of Gold—He-to=peg.		0	0
An A-ttic D-rachm—A-d=dei,ro	0	0	8
A Hebrew D-rachm-He-d=dou	0	0	9
A Roman L-ibra=96 D-enarii—Ro-l=			
dous=li	3	0	O:
†A Roman Talent=72 Libræ—Róm-ta=			- 1
liboid=das	216	0	O
An Alexandrian Drachm—Al-drach=			- 5
sa-ds	0	1	6
An Italic Mina—Ita-mí=lt	3	0	0-
A Shekel=2 Bekas—Shek=béd=si	0	3	C
A Roman D-enarius=4 Sesterces—Ró-d			Ì
=ses $o=$ d oi,re	0	0	7
A Sesterce, to of a Denarius, sc. LLS.			ļ.
(vulgo HS.) duo asses cum semisse—			
Ses = da -fi,re, a penny three farthings	^	0	
and half a farthing	0	0	1

^{*} See the Preface to Dr. Prideaux's Connexion.
† Others make a Roman Talent = 6000 D-enarii = 24 Seste tiums=1871. 10s,—Tal=Dauth=Sésdo=lacip-h.

* Dr. Arbuthnot makes the Sesterce a penny three farthings, and aree-fourths of a farthing—Ses=da-fi,tro; according to which estertium, or 1000 Sesterces, will be 8l. 1s. $5\frac{1}{2}d$.—Sath=k-a-l-h; ecies Sestertium, or 1,000,000 of Sesterces = 8072l. 18s. 4d.—estám=kype-sak-do.

al = Dauth = Sésdo = laeip-h, Sath = k-a-l-h, Sestám = kype-sak-do.

TABLE II.

MEASURES OF LENGTH.

THE method observed in the following tables is, firs to give the ancient measures, weights, &c. in the proportions which they bear to each other; and then the proportions which they bear to those of our own country. To which I subjoin some tables, by which the reader wibe enabled to make any calculations of this kind with the utmost ease and readiness.

ENGLISH MEASURES OF LENGTH.

English MILe =
$$\begin{cases} 8 \text{ FuRlongs} - \text{Fur}k \\ 320 \text{ P-oles} - \text{P}idz \\ 1,760 \text{ YARds} - \text{Yarapauz} \\ 5,280 \text{ F-eet} - \text{Fudeiz} \\ 63,360 \text{ Inches} - \text{Inautisy} \\ 190,080 \text{ B-arley corns} - \text{Banzyeiz} \end{cases}$$

 $Mil \Rightarrow Furk = Pidz = Yarapauz = Fudeiz = Inautisy = Banzyeiz.$

```
MILE (=8 furlongs) = 5280—Mil=Fudeiz.

FURlong (=40 poles) = 660—Fur=Fsauz.

Pole (=5\frac{1}{2} yards) = 16\frac{1}{2}—Pol=Fas,re.

CUBit (=2 spans) = 1\frac{1}{2}—Cub=Fa,re.

FAThom (=2 yards) = 6—Fat=Fau.
```

Mil=Fudeiz, Fur=Fsauz, Pol=Fas,re, Cub=Fa, Fat=Fau.

GRECIAN MEASURES OF LENGTH.

$$\begin{split} \mathbf{M} & \hat{\mathbf{i}} \lambda \cdot \mathbf{i} o \nu = \begin{cases} 8 & \Sigma \tau \acute{a} - \delta \iota a - \Sigma \tau \acute{a} \mathbf{k} \\ 800 & \mathbf{0} \rho \gamma - \nu \iota a \grave{i} - \mathbf{0} \rho e i \mathbf{g} \\ 4800 & \mathbf{H} \acute{o} \delta - \varepsilon \varsigma - \mathbf{H} \acute{o} \delta f e i \mathbf{g} \end{cases} \\ & \mathbf{H} & \tilde{\eta} \chi - \nu \varsigma = 2 & \Sigma \pi \iota \theta a \mu - a \grave{\iota}. \\ & \mathbf{H} & \tilde{\nu} \varsigma = 4 & \Delta \tilde{\omega} \rho - a = 16 & \Delta \acute{a} \kappa \tau - \nu \lambda o \iota. \end{cases}$$

 $Mi\lambda = \Sigma \tau \acute{a}k = O\rho eig = \Pi \acute{o}\delta feig.$ $\Pi \tilde{\eta} \chi = \Sigma \pi \iota \theta a \mu e.$ $\Pi o \tilde{\nu} e \sim \Delta \tilde{\omega} \rho o = \Delta \acute{a} \kappa \tau a s.$

 $\begin{array}{rcl}
O\rho\theta - \acute{o}\delta\omega\rho ον & = & 11 - \acute{o}\rho\theta = \Delta ab \\
\Lambda \acute{i}\chi - a\varsigma & = & 10 - \Lambda \acute{i}\chi = \Delta \acute{a}\varsigma b \\
\S \Delta \tilde{\omega} - \rho ον & = & 4 - \Delta \tilde{\omega} = \Delta \acute{a} κ τ o
\end{array}$

† The Grecian foot was also, like the Roman, divided into 12

Dὖγγίαι or inches.
§ Δῶρον, the palm, so called, because gifts are made with the hand: called also Δοχμή, from δέχομαι, to receive, Δακτυλοδόχμη & Παλαιστή.

^{*} Called also Αὐλδς, from whence came Δίαυλος, a space of two stadia.

[†] The Grecian measures, from which the Romans borrowed theirs, were commonly taken from the members of a human body. $\Delta d\kappa \tau \nu \lambda \sigma_{5}$, a finger's breadth; $\Delta \hat{\omega} \rho \sigma \nu$, a hand's breadth, or four fingers; $\Lambda i \chi \alpha s$, from the thumb to the middle finger; $O\rho \partial \delta \omega \rho \sigma \nu$, the length of the hand, from the upper part to the extremity of the longest finger; $\Sigma \pi \iota \theta \alpha \mu \dot{\eta}$, the length of the hand extended, between the thumb and the little finger; $\Pi \sigma \dot{\nu} s$, the foot—four hands' breadth; $\Pi \dot{\eta} \chi \nu s$, from the elbow to the extremity of the fingers; $\Pi \nu \gamma \dot{\nu} \dot{\nu}$, from the elbow to the second joint of the fingers, or a cubit with the fingers inflected; $\Pi \nu \gamma \mu \dot{\eta}$, from the elbow, with the fingers quite clasped; $O\rho \gamma \nu \iota \dot{\alpha}$, from the extremity of one middle finger to the extremity of the other, the arms being extended.

ROMAN MEASURES OF LENGTH.

```
\mathbf{Milliare} = \begin{cases} 8 \text{ STAdia} - \text{Sta}k \\ 1000 \text{ P-assus} - \text{Path} \\ 4000 \text{ PALMiPedes} - \text{Palmpoth} \\ 5000 \text{ P-edes} - \text{Puth} \end{cases}
\mathbf{PES} = \begin{cases} 4 \text{ PALmi Minores} - \text{Pal-mino} \\ 12 \text{ Unciæ} - \text{Uncad} \\ 16 \text{ Digiti} - \text{Digitas} \end{cases}
```

Mil=Stak=Path=Palmpoth. Pes=Pal-mino=Digitas = Uncad.

P-edes.

Mil-rom=Puth, Stadi=Psel, Pass=Pu: Cub=Digitef, Palmíp=Dez,

Pes=Das, Palm=Do, Un=Da,re.

JEWISH MEASURES OF LENGTH.

* Some divide the Digitus into 4 Grana.

† Some use Ulna for Cubitus. Pliny takes them for different measures; his Ulna answers to the Greek 'Οργνιά.

‡ Pes was divided, as the As, into 12 parts; hence Dextans =

10 inches, Dodrans = 9 inches, &c.

[§] Called Palmus minor, to distinguish it from a greater, which some authors make equal to 12 digits.

| Called sometimes Pollex.

Cub=Spanë-i=Palmau=Digitef. Mil=Sabate=Staz= Coth.

CUBITS. Eastern MILe (=10 stadia) = 4000 - Mil = CothSTADium 400—Stad=Cubitog *Schenus, or Chebal 80—Schen=eiz Anabian Pole 8—Ara-pol=kEzekiel's Reed, or Kaneh 6-Eze-ree=sFATHOM 4-Fath=0DIGITS. Cubit, or Ammah 24—Cub=Digitef †SPAN, or Zereth 12—Span=Dad PALM, or Tophach 4-Palm=Do

- Mil=Coth,

Stad = Cubitog, Scheen = eiz, Ara-pol = k, Eze-ree = s, Fath=o: Span=Dad,

Cub=Digitef, Palm-Do: Para=Milt. —

N. B. The Parasang is a Persian measure, consisting of 30 stadia=3 MILes—Para=Milt.

A day's journey is an uncertain measure, but amongst the Jews was generally reckoned 24 miles.

The Memorial Lines.

Mil = Furk = Pidz = Yarapauz = Fudeiz = Inautisy =Banzyeiz.

Mil = Fudeiz, Fur = Fsauz, Pol = Fas, re, Cub = Fa, re, Fat=Fau.

 $Mi\lambda = \Sigma \tau \acute{a}k = O\rho eig = \Pi \acute{o}\delta f eig.$ $\Pi \tilde{\eta} \chi = \Sigma \pi \iota \theta a \mu e.$ $\Pi o \tilde{\nu}_{\varsigma} = \Delta \tilde{\omega} \rho o$ $=\Delta \acute{a}\kappa \tau as,$

Στά $\delta\iota = \Pi aug \& Oo\gamma = \Pi au$: $\Pi \tilde{\eta} \chi = \Delta e f$, $\Pi v \gamma = \Delta a k$ que $\Pi v \gamma \tilde{\omega} v$ $=\Delta ez$,

Ποῦς=Δάκτας, Σπιθα=Δαd, Ορθ=Δab, Λιχ=Δάκby, $Δ\~ω=$ Δάκτο.

Mil=Stak=Path=Palmpoth, Pes=Pal-mino=Digitas= Uncad.

Called also Pathil.

[†] There is likewise another word, Gomed, which the LXX. render Σπιθαμή.

Mil-rom=Puth, Stadi=Psel, Pass=Pu: Cub=Digitef Palmíp=Dez,

Pes=Das, Palm=Do, Un=Da,re.

Cub=Spanë-i=Palmau=Digitef. Mil=Sábate=Staz= Coth.

----Mil=Coth,

Stad = Cubitog, Schen = ciz, Ara-pol = k, Eze-ree = s, Fath=o: Span=Dad,

Cub=Digitef, Palm=Do: Para=Milt. -

TABLE III.

THE PROPORTION OF THE FOREGOING MEASURES TO ENGLISH MEASURES.

				In.	decimals.
GREcian D-igit-Gré-d=,pulo.		•		0	.75546875
Roman D-igit—Ro-d=, peldu .		•		0	.72525
*Jewish D-igit—Jew-d=,nad.			•	0	.912
<u> </u>				Feet	. decimals.
GREcian F-cot—Gre-f=a,zypdou	•			1	·00729+
Roman F-oot—Ro-f=,naup .		•	•	0	.967
Hebrew C-ubit— $H\acute{e}\cdot c=a,kef$.		•	•	1	·824
GREcian C-ubit—Gre-c=a,laznil	•			1	·510935
Roman C-ubit—Ro-c=b,olzu.			•	1	·4505
				In.	decimals.
GRECian Foot—Grec-fo=be,zeipu				12	.0875
Roman F-oot—Rom-f=ab,syf.	•	•		11	.604
HEbrew C-ubit—He-c=da, keik				21	·888·
GREcian C-ubit-Gre-c=bei,bib				18	·13125
Roman C-ubit—Ro-c=boi, fys .				17	·406
		En	g.	Miles	decimals.
†GREcian M-iles—Gre-m=,pautze	oun	•	•	0	•763099

^{*} In reducing the Jewish Measures, I have followed Bishop Cumberland, who makes the cubit = 21.888 inches. Dr. Arbuthnot thinks it plain that there were two sorts of cubits, the sacred one and the profane or common one; the former exceeding the atter by a hand's breadth, or three inches. The profane cubit he akes equal to 17.82 inches; the sacred one = 20.79 inches.

+ Dr. Arbuthnot makes the Grecian mile equal to 805,8 English paces; which, agreeably to my own method, I have here reduced

Paran Mila Dam managara	Er	ng. I	Ailes	decimals.
Roman M-ile—Rom-m=,nalpan .				
HEBREW MILE—Heb-mil= a , teiboi.				
GREcian Stadium—Gre-st=,zoutleip	•	•	0	·093587a
Roman Stadium—Ro-st=,bafos .	•	٠	0	·114465
HEbrew StadiumHe-st=,bik	•	٠	0	·13817

The Memorial Lines.

Gré-d=,pulo, Ro-d=,peldu, Jew-d=,nad: Ro-f=,naup, Gre-f=a,zypdou,

Ro-c=b, olzu, He-c=a, kef, Gre-c=a, laznil: Grec-fo=be, zeipu,

Rom-f=ab-syf: Gre-m=,pautz, Rom-m=,nalpan, Heb-mil=a,teiboi:

He-c=da-keik, Ro-c=boi-fys, Gre-c=bei-bib: Ro-st=, bafos, He-st=, bik,

Gre-st=,zoutleip. —

TABLE IV.

SUPERFICIAL MEASURES. Sq. F-eet. dec. English Acre—Ac=s-fotlauz . 43560 .00 R-ood (=40 poles)—R=azkouz . . 10890 .00 Pole-Pol-doid, el . . . 272 .25 Sq. YARds. Acre—Ac=Yarokoz . . . Sq. Feet. decimals. Roman Square F-oct—Ro-fq=nil . . 0 .935089 GREcian Sq. F-oot-Gre-fq=á-zafauts . . 1 .0146365 Hebrew Squ. C-ubit—He-cq=i,tesnois . . 3 ·326976 Jugerum=R-oods 2, P-oles 18, F-eet 250.05-Jug= Ré-Pak-Fely-zu

Πλέθ-ρον=P-oles 36, F-eet 245—Πλέθ=Pís-Fdol

to 0.763099 of a mile. Yet, according to his own computation, which makes ' $O\rho\gamma\nu\iota\dot{\alpha}=6$ feet 0.525 inches, or, which is the same, 6.04375 feet, $\Sigma\tau\dot{\alpha}\delta\iota\sigma\nu$ (= 100 ' $O\rho\gamma\iota\iota\alpha$) will be 604.375 feet, and Milion (= 8 $\Sigma\tau\dot{\alpha}\delta\iota\alpha$) will be 4835 feet, exactly equal to the number of English feet in a Roman mile = 0.915719 of a mile.

*Ecyptian "Appropriate Roods 3, P-oles 2, F-eet $55\frac{1}{4}$

23 y bilan Tipoo ba 25 com c,		-
"Apov=Ri-Pe-Ful,ro.		
	Eng. Acres.	
Jugerum—Jug=,sakdo	0	·618240
		·230632
Egyptian 'Αρουρ-α-' Αρουρ=, oist		·763768
Greek Sq. Feet.	Eng. Sq	. F. decim.
Πλέθρον = 10,000 =	10,14	16 ·3650
*Αρουρα $\frac{1}{2}$ Πλέθρον = 5,000 =	5,0	73 ·1825
Egyptian "Αρουρα = 10,000 Squ. Cub.	= 33,20	39 ·7600
Rom. Sq. Fo	eet. Sq.	F. decim.
†Actus minimus $120 \times 40 = 4,800$	4 4 5	38 .4272
Actus Quadratus $120 \times 120 = 14,400$	= 13,46	35 ·2816
Clima $60 \times 60 = 3,600$	= 3,36	36 ·3204
Versus $100 \times 100 = 10,000$	= 9,38	60088 100
Jugerum=2 Actus Quad. = 28,800	= 26,93	30 ·5632
Uncia $\frac{1}{12}$ of the Jugerum = 2,400	= 2,24	14 ·2136

The Memorial Lines.

Ac=s-fotlauz, R=azkouz, Pol=doid,el; Ac=Yarokozque; Gre-fq=á,zafauts, Ro-fq=nil, He-cq=i,tésnois.—

Jug=Ré-Pak-Fely,zu, Πλέθ=Pís-Fdol, "Αρου=Ri-Pe-Ful,ro.

Jug=,sakdo, Πλέθ=,etyst, "Αρουρ=,oist.——

TABLE V.

MEASURES OF CAPACITY.

ENGLISH WINE MEASURE.

$$Tun = \begin{cases} 2 \text{ B-uts--Be} \\ 3 \text{ Puncheons--Pui} \\ 4 \text{ Hogsheads--Hof} \\ 6 \text{ Tierces--Tiers} \end{cases}$$

* The Grecian 'Αρουρα was 1 of the Πλέθρου.

‡ The Jugerum was divided, like the As, into twelve parts.

[†] Actus is the length of one furrow, so far as a plough goes before it turns, in length 120 feet.

$$Tun = \begin{cases} 8 & BARrels-Bark\\ 14 & R-undlets-Raf\\ 252 & GALlons-Galdud\\ 2,016 & Pints-Pidzas\\ 58,212 & Solid & Inches-Inukdad \end{cases}$$

Tun=Be=Put=Hof=Tiers=Bark=Raf=Galdud=Pidzas=Inukdad.

ENGLISH CORN MEASURE.

$$\begin{array}{l} \textbf{Quarter=8 Bushels-Quar=Bus}k \\ \textbf{Bushel} = \left\{ \begin{array}{l} 4 \text{ Pecks-Peco} \\ 8 \text{ Gallons-Gal}k \\ 64 \text{ Pints-Pinso} \end{array} \right. \end{array}$$

Bush=Peco=Galk=Pinso: Quar=Busk.

FALLon of W-ine—Gáll-w= eta	l,
Gallon of C-orn—Gal-c=doid, ro	
Dryt DD- magging Din dr-if rid 34.1	
TINE DRV measure—1 m-ui—0,100 · · · · · · · · · · · · · · · · · ·	7
PINt LIQUID measure—Pin-liquid=ek,prei 287	
G3 GALlens-Galsi	
Hogshead = $\begin{cases} 63 \text{ GALlens-Galsi} \\ 504 \text{ PINts-Pinúzo} \end{cases}$	

Gáll-w=eta, Gal-c=doid, ro, Pin-dr=if, rid, Pin-liquid= ek, prei. Hog=Galsi=Pinúzo.

GLECIAN MEASURES OF CAPACITY.

$$M\epsilon\tau-\rho\eta\tau\dot{\eta}\varsigma = \begin{cases}
 12 \text{ K}-\delta\epsilon\varsigma-\text{X\'ad} \\
 72 \text{ II}-\acute{\epsilon}\sigma\tau\alpha\iota-\text{Eoid} \\
 144 \text{ Ko}\tau\dot{\nu}\lambda-\alpha\iota-\text{Ko}\tau\dot{\nu}\lambda\alpha ff \\
 48 \text{ Xo}\iota\nu-\iota\kappa\dot{\epsilon}\varsigma-\text{Xc}\iota\nu\circ k \\
 72 \text{ E\'{\epsilon}}\sigma\tau-\alpha\iota-\text{E\'{\epsilon}}\sigma\tau\rho e \\
 144 \text{ Ko}\tau\dot{\nu}\lambda-\alpha\iota-\text{Ko}\tau\dot{\nu}\lambda\alpha ff
 \end{cases}$$

This is the common received content of a corn gallon, and according to which the following computations are made; but strictly, by Act of Parliament, the corn gallon contains but 268.8 cubic inches. By experiment it appears also, that the standard wine gallon doth contain but 224 cubic inches.—See Ward's Machematician's Guide, Part I. Chap. 3.

 $M_{\varepsilon\tau}=X\acute{a}d=\Xi oid=Ko\tau\acute{v}\lambda aff,$ $M\acute{\epsilon}\delta=Xo\nu ok=\Xi \acute{\epsilon}\sigma\tau peque=Ko\tau\acute{v}\lambda aff.$

 Ξ έστ=Κοτύλe=Κοχλadz='Οξύk=Κύ $a\theta be$ que=Μύστροk.

Ξέστ-αι.

* $M\varepsilon\tau$ - $\rho\eta\tau\eta$ ς l. (=12 $X\delta\varepsilon\varsigma$) 72—Μετ=Ξέστοιd $= 6 - Xo\tilde{v}_S = \Xi au$ = 72 - MCΧοῦς Ι. (=12 Κοτύλαι 72—Μέδιμ=Ξoid Μέδιμ-νος d. = $1\frac{1}{2}$ — $Xo\tilde{i}\nu=\Xi a,re$ Xoiv-if d. Μύστρ-α. Ξέστ-ης (=12 Κύαθοι) $=48-\Xi \acute{\epsilon}\sigma \tau = M\acute{\nu}\sigma \tau \rho o k$ 24— $Ko\tau\dot{v}=Mef$ Κοτύ-λη (=6 Κύαθοι) 6—'Οξύβ=Μαu'Οξύβ-αφον (=3 Κόγχαι) = 4— $K_{v\alpha}$ = M_{o} Κύα-δος (=5 Χῆμαι) 2-Κόγχ-Με Κόγχ-η (=5 Κοχλιάρια)

Mετ=Ξέστοιd, Xοῦς=Ξαu, Mέδιμ=Ξοιd, Xοῦν=Ξα, re. Ξέστ=Μύστροk, Κοτύ=Mef, Οξύβ=Mau, Κύα=Mo, Κόγχ =Me.

ROMAN MEASURES OF CAPACITY.

Cul=Amphez=Urnoz=Congbauz. Sext=Hemine=Quartarf= $\Lambda cetak=Cyathbeque=Liglok$

Called also 'Αμφορεύς, and Κάδος.

N.B. l. denotes measures for liquid things, d. measures for dry things; the rest are used as measures for both.

SEXTarii.

Culeus I. (=20 Amphoræ) = 960-Cul=Sexnauz = 48—Amph=Sok = 24—Urn=Sextef Amphora l. (=2 Urnæ) URNa l. (=4 Congii) = 6—Congi=Sau CONGIUS I. = 16-Mod=SasModius d. (=2 Semi-modii) LIGULæ. Sextarius (=2 Heminæ) = 43—Sext=Ligulok = 24—Hemi=Lef = 12--Quart=Lad HEMIna (=2 Quartarii) QUARTarius (=2 Acetabula) 6-Acetab=Lau ACETABULUM (=13 Cyathus) CYATHUS 4—Cyath=Lo Cul=Sexnauz, Amph=Sok, Urn=Sextef, Congi=Sau, Mod=Sas. Sext=Ligulok, Hemi=Lef, Quart=Lad, Acetab=Lau,

JEWISH MEASURES OF CAPACITY.

 $\mathbf{BATH} = \begin{cases} \mathbf{3} \text{ SEAhs-Seat} \\ \mathbf{6} \text{ HINs-Hins} \\ \mathbf{10} \text{ OMERs-Omeraz} \\ \mathbf{18} \text{ C-abs--Cak} \\ \mathbf{72} \text{ Logs--Log}pe \\ \mathbf{96} \text{ CAPHs--Caph}nau \\ \mathbf{330} \text{ GACHALs--Gachal}tiz \end{cases}$

Cyath=Lo.

Bath=Seat=Hins=Omeraz=Cak=Logpe=Caphnau=Gachaltiz.

BATHS OF EPHahs,

CHOMER OF Coron = 10—Chom=Bath-Ephaz

ETech d. = 5—Let=Ephu

CABS.

BATH OF EPHAH = 18—Bath-Eph=Cabak

HIN 1. $\frac{1}{2}$ of Seah = 3—Hín=Cabi

EAH = 6—Sea=Cabs

The Hin was=12 L-cgs=16 C-aphs l.—Hín=Lad=Cas.

LAB=20 G-achals d.—Cab=Gez.

Improve Gomer was a dry measure.

Chom = Bath-Ephaz, Let = Ephu, Bath-Eph = Cabak, Hín=Cabi, Sea=Cabs.

Hin=Lad=Cas, Cab=Gez. —

The Memorial Lines.

Tun=Be=Put=Hof=Tiers=Bark=Raf=Galdud=Pidzas=Inukdad.

Bush=Peco=Galk=Pinso: Quar=Busk: Hog=Galsi=Pinúzo.

Gáll-w=eta, Gal-c=doid, ro, Pin-dr=if, rid, Pin-liquid=ek, prei.

 $M_{\varepsilon \tau} = X \acute{a} d = \Xi o i d = K_{o \tau} \acute{v} \lambda a f f, \qquad M_{\varepsilon} \delta = X_{o \iota v} o k = \Xi \acute{\varepsilon} \sigma \tau p e que = K_{o \tau} \acute{v} \lambda a f f.$

 Ξ έστ=Κοτύλe=Κοχλadz='Οξύk=Κύαθbeque=Μύστροk. Μετ= Ξ έστοid, Χοῦς= Ξ au, Μέδι μ = Ξ oid, Χοῦν= Ξ a, re.

Ξέστ=Μύστροk, Κοτύ=Μef, 'Οξύβ=Μau, Κύα=Μο, Κόγχ =Μe.

Cul=Amphez=Urnoz=Congbauz. ——

Sext=Hemine=Quartarf=Acetak=Cyathbeque=Liglok. Cul=Sexnauz, Amph=Sok, Urn=Sextef, Congi=Sau,

Mod=Sas.

Sext=Ligulo.; Hemi-Lef, Quart=Lad, Acetab=Lau, Cyath=Lo.

Bath=Seat=Hins=Omeraz=Cak=Logpe=Caphnau=

Gachaltiz.

Chom = Bath-Ephaz, Let = Ephu, Bath-Eph = Cabak. Hin=Cabi, Sea=Cabs.

Hin=Lad=Cas, Cab=Gez.

TABLE VI.

MEASURES OF CAPACITY REDUCED TO ENGLISH MEASURES.

A PINT DRY = 34.0312 Cubic inches A PINT LIQUID = 28.875

--- Pin-dr=if,zibe, Pin-liquid=ek,koil.

	DRY.							
Méderica Méderica						Pints.	In. decir	
Μέδιμν-οςΜέδιμν=οία-τ	•	•	•	•	•	70	3 .20	1
Iodis—Modi=bau-p	•	•	•	•	•	16	7 .68	
Pнаh—Eph=ub-ad	•	•	٠	•		51	12 .10	7
$(\epsilon\sigma\tau-\eta\varsigma-\Xi\epsilon\sigma\tau=z-it$	•	•	•	•	•	0	33 .15	8
EXTARius—Sextar= a .	•	٠.	•	•	•	1	0 .48	
AB-Cab=d-ek	•	•	•		•	2	28 .43	2
LI	QUID) <u>.</u>						
						Pints.	In. decin	0.:
Mετρ-ητης $-M$ ετρ $=$ eid-an	•	•	•	•			9 .626	
Mphora - Am = up-az.	•	•		•	•	57 1	0 .66	
BATH-Bath=sy-bu.	•	•				60 1	5 .2	
έστ-ης—Ξέστ $=a$ - f		v		•		1	4 .283	
EXTarius—Sext=a-u .			•				5 .636	
\log — \log = z - do			•		•	_	$24 \cdot 273$	5
5		·	•	•	•	0 2	F 210	,
18 25 TE / S							. decimals	•
$\epsilon \delta$ -ιμνος—Μέ δ = a ,zous .	•	•	•	•	•		.09612	
opius—Mod=,elild.	•	٠		•	•	. 0	253525)
PHah - Eph=,kydoti				٠		. 0	·80243;)
nomer $\int_{-\infty}^{\infty} e^{-ikpn-ikgaott}$		Ů	•	•	•			,
M til							decimals.	
$s\tau\rho$ - $\eta\tau\eta$ s—Me $\tau\rho$ = az , til	•	٠	•	٠	٠	. 10		
MPHora—Amph=oi,apad	•	٠	•		٠		1712	
ATH—Bath=p,laul	•	٠	•	٠		. 7	•5558	
ongius—Con=, kousteil.	٠	•	•	•	•	. 0	.896385	5
						D:- 4	- 3 2	
στ-ης liquid—Εέστ=a,bok		•	e				s. decimals	
$-\sigma \tau \eta \varsigma \operatorname{dry} - \Xi \varepsilon = z, noif$.					4		•1483	
01/15 dry - 12 2,100 .	•	•	٠	•	•	. 0	97447	1

Besides the Attic Medimnus, there was a Medimnus Georgicus, tal to 6 Roman Modii.

The Metretes of Syria was equal to the Roman Congius =

71 pints.

The Jewish measures are here, according to Bishop Cumberd, from the Rabbins: but Bishop Hooper, from Josephus, kes the Jewish Bath equal to the Attic Μετρητής, and consently the Log equal to the Ξέστης. Dr. Arbuthnot has given tables according to both, but seems to prefer Bishop Hooper's ount to the other.

SEXTARIUS liquid—Sext=á,boulak

SEXTarius dry-Sext=a,zafei

CAB liquid—Cab=t,isd

CAB dry—Cab=e,kóp.

Log-Log=z,eif

P'nts. decimal:

1 .19518

1 .0148

3 '3625'

2 ·8473 0 ·8406

106-108-2,09
The Memorial Lines.
Pin-dr=if,zibe, Pin-liquid=ek-koil.
Μέδι $uv = oiz - t$, Modi = $bau - p$, Eph = $ub - ad$, Ξέστ = $z - ia$
Sorter-q Cab= d - ek .
Bath= sy - bu , Mether eid - an , Am= up - az , Zé $\sigma\tau$ = a - f , Sex
$=a-u$, $\log = z-do$,
$=a-u$, $\log -z-av$, $\operatorname{Eph}= \underset{i}{\operatorname{hydoti}}$, $\operatorname{Mod}= \underset{i}{\operatorname{elild}}$, $\operatorname{M} \acute{\epsilon} \delta = a,zous$, $\Xi \acute{\epsilon} = z,noif$, Ca
$=e,k\acute{o}p$ que, $Amph=oi,apad$, $Bath=p,laul$, $M\epsilon au ho =az$, til , $\Xi \acute{e}\sigma au =a,bol$
Cob-tied
Sext=\(\alpha\), boulak, Con=\(,\kappa\), bousteil, Sext=\(a\), zafei, Log=\(z\), ei
•
TABLE VII.
WEIGHTS.
N. B. Lor Li stands for Libra or pound, Oz. for ounce
Li-t Pound T-roy, L-avoir Pound Avoirdupois.
A Pound T-roy=12 Ounces—Li-t=Ozad
8 DRAms—Drak
An Ounce Troy = 24 Scruples—Screp
An Ounce Troy= $ \begin{cases} 8 \text{ DRAms-Dr\'{a}\it{k}} \\ 24 \text{ ScRuples-Scref} \\ 20 \text{ P-ennyweights-Pez} \\ 480 \text{ GRAins-Grafky} \end{cases} $
(480 GRAIIS—Grajky
*A Pound Avoirdupois = { 16 Ounces—Ozas 256 DRams—Drels
200 Ditains Dices

Lí-t=Ozad, Oz=Drák=Scref=Pez=Grafky,

Ozas, L-áv = Drels.

^{*} According to the proportion laid down by Mr. Greaves, verthat the avoirdupois pound is to the troy pound as 175 to 144: Dr. Arbuthnot's tables it is as 17 to 14, which is a very incominderable difference, being but 44 grains less in the pound.

ound T-vov. Ii t-	- Gramana					G	rains Troy.	
ound T-roy—Li-t=	- Orupauz	• •	•	•	•	e	5760	
unce Troy-Oz=	oky	• •	•	•	•	•	480	
Ram-Dr=auz.			•	•	•		60	
Ennyweight—Pen	=Gref.	• •	•	•	•	•	24	
CRUPle - Scrup = d	y	• •	•	•	•	•	20	
Pound Avoirdupois	s-L-av =	oith .	•	•	•	•	7000	
unce Avoirdupois-	-Oz-av=	otoi, l	•	•	•	٠	437 .5)
i-t=Grupauz, Oz= =dy, L-av=oithq z-av=otoi,l.——	=oky, Dr ue,	=auz,	Pe	en=	:Gı	ref,	Scrup	
	ANCIENT WE	EIGHTS.						
-ttic T-alent=	60 M- 6000 DR	achms	I	rai	uth			
Ebrew T-alent = {	3000 Ѕн	ekels—	-Sh	ith				
DOLOW 1 -dient	60 M-	anehs-	$-\mathbf{M}$	auz	;			
	2 BE	kahs	Be	ke				
HEKel = {	4 Zu:	zas—Z	$\mathbf{u}f$					

-t=Mauz=Drauth; He-t=Shith, He-t-pond=Mauz; Shek=Beke=Zuf=Gez.

20 G-erahs—Gez

ROMAN AND GRECIAN LESSER WEIGHTS.

```
IBra = 12 Unciæ—Lib = Unad

3 DUELlæ—Duelt
4 SICILici—Sicilo
6 SEXTULæ—Ses
8 DRACHMæ—Drak
6 OBOLI—Obs
18 SILiquæ—Silak
72 Granea vel Lentes—Groid
```

n=Duelt=Sicilo=Ses=Drak, Drach=Script=Silak= Obs=Groid.

Mr. Ward says, that, by a very nice experiment, he found at one pound avoirdupois is equal to 14 ounces 11 penny-weights d 15½ grains troy, which is 6999½ grains; differing but half a ain in the pound from Macayes.—Mathematician's Guide, It i. chap. 3.

LIBra Λίτρα—Lib=Grasnad
Uncia Οὐγγία—Unc=lois
Lib = Grasnad, Unc = lois, Drachm = oid, Scrupul = e. Obol = ad, Sil = f.
DIVISIO ASSIS.
As

As=dëu-dex — dod-bes — septún-semi — quin-tri-quasext-unc.

9 Quadrans

8 SEXTANS 7 Uncia.

The Memorial Lines.

Lí-t=Ozad, Oz=Drák=Scref=Pez=Grafky, L-áv=Ozak L-áv=Drels.

Li-t=Grupauz, Oz=oky, Dr=auz, Pen=Gref, Scrup=di L-av=oithque,

Oz-av=otoi, l. —

Doprans

SEPTUNX

A-t=Mauz=Drauth; He-t=Shith, He-t-pond=Mauz Shek=Beke=Zuf=Gez.

Lib=Unad, —

Un=Duelt=Sicilo=Ses=Drak, Drach=Script=Silak= Obs=Groid.

† The Oβ-oλos was divided into 6 Χαλ-κοί or Æreoli, and the Χαλκ-δs into 7 Λεπτ-α or Minuta-'Οβ=Χαλs, Χαλκ=Λεπτοί.

† The Ἡμίωβολον, Ἡμίδραχμον, Δίδραχμον, &c. are evident fro their names.

^{*} N.B. The Romans divided sunce into 7 denarii as we as 8 drachms; and since they reckoned their denarius equal to the Attic drachm, this will make the Attic weights & heavier than the correspondent Roman weights.

ib=Grasnad, Unc=lois, Drachm=oid, Scrupul=ef, Obol =ad, Sil=f.

s=dëu-dex — dod-bes — septún-semi — quin-tri-qua —

sext-unc.

TABLE VIII.

ANCIENT WEIGHTS REDUCED TO ENGLISH TROY WEIGHTS.

1			
oMan Ounce—Rom-oz=fik	. 4	138	.00
AEKel-Shek=ebou	. 2	219	.00
Roman D-rachm=Ro-d=uf,pu			
Enarius—Den= se,loi			
A-ttic D-rachm—A-d=sei,f			
lil	o. oz.		
oman L-ibra—Ro-l= az - an	10	19	0
Ebrew M-aneh—He-m= e - t - oi - be 2	3	7	12
Ebrew T-alent—He-t=báf-yz-al 114			0
ncient Artic M-ina-At-m=a-d-u 1			
icient Artic T-alent-At-t=pa-t 71		0	0
The Memorial Lines.			
m-oz= fik , Shek= $zbou$, Ro-d= uf , pu , I	en=	= se,	loi,
1 d-00 f		,	

A-d=sei, f.

:-t=b\(af\)-yz-al, Ro-l=az-an, He-m=e-t-oi-be, At-m= u-d-u At-t=pa-t.

So Bishop Cumberland, from the Rabbinical accounts. But hop Hooper, from Philo and Josephus, makes it equal to the ic Stater, or Tetradrachm=68.4-4, or 67-4 grains.

According to the weight of the standard mina of Solon, Bishop oper supposes, that whilst the money drachm fell gradually n 68.4 to 62.57 grains, the ponderal drachm continued still same, which I have therefore here retained. Dr. Bernard lays middle sort of Attic drachms at 66 grains, which (Table I.) accordingly valued at 81d. But the weight of the Attic drachm, er the first Roman Emperors, and for some considerable time ore, was about 62.57 grains; and upon this drachm, and the ality of it with the Roman denarius, most of the computations lassic authors are founded.

The common Attic mina was supposed equal to 121 Roman ces. The mina medica was 16 Roman ounces, and exactly the

ght of our avoirdupois pound.

TABLE IX.

JEWISH AND ROMAN MONEY, ACCORDING TO BISHOP CUMBERLAND.

	1.	8.	đ
Hebrew M-ina—He-m=p-a-l	7	1	E
Hebrew T-alent—He-t=tút-ab-az-h			
Golden Darick=12 G-erahs—Dar=Gád			
=l a -d o	1	0	4
Hebrew T-alent of Gold (O-r)—He-to=			- 1
ufoil-ba-p-h	5475	11	1
Shekel—Shek=sé-do,ro			4
Silver Denarius—Den=doi-t	0	0	P
Assarium=F-arthing and half—Assar=Fa	-h		
A Quadrant=3 of a Farthing—Quád=iro			
A MITE=1 of a F-arthing—Mit=ri-F			
The Memorial Lines.			
He-m = p - a - l , He-t = $t\acute{u}t$ - ab - az - h , Dar =	Gád =	= 1a	-di
He-to=ufoil-ba-p-h,			
Shek=sk-do-ro Den=doi-t Assar=Fa-h	On	6d_	20

Shek=sé-do-ro, Den=doi-t, Assar=Fa-k
Mit=ri-F.

DECIMAL TABLES

OR THE MORE EASY REDUCTION OF ANCIENT COINS, WEIGHTS,
AND MEASURES.

Those who understand decimal arithmetic will, I hope, acuse me, if, for the sake of such as are unacquainted nerewith, I lay down two or three observations, in order make the following tables more generally useful:

First, that the denominator of every decimal fraction is n unit, with as many ciphers as there are places of numers in the fraction: thus '5 signifies 50, '05 signifies 750,

105 signifies $\frac{5}{1000}$, &c.

Secondly, that the nine figures at the left hand of each f the tables may stand either for units, or, by the supposed addition of one, two, three, or more ciphers, for

ens, hundreds, thousands, &c.

Thirdly, that if the said nine figures are supposed to and for one, two, three, four, &c., then the decimals and as in the table: if for ten, twenty, thirty, forty, &c. for one hundred, two hundred, &c. then, for every such apposed addition of a cipher, one figure in the place of ecimals is to be added to the place of integers.

Thus a Jewish cubit is equal to 1 English foot and 824

ousandth parts of a foot.

1 cubit = 1 ·824 10 cubits = 18 ·24 100 cubits = 182 ·4 1000 cubits = 1824

If there are not places enough of decimals to answer, ey must be supplied with ciphers:

Thus, 1 Attic talent = 206 ·25

10 Attic talents = 2062 ·5

100 Attic talents = 20625

1000 Attic talents = 206250 &c.

But as the common computation in classic authors by sesterces and drachms, I shall exemplify more partic larly the foregoing observations in the two tables draw up for them.

Sesterce=1d. 3f. 3, in de- A-ttic D-rachm, or Roma cimal fractions of a pound sterling = $\cdot 00807291667$ -Sest=zykypenassoi

denarius=7d.3f., in dec mal fractions of a pour sterling = .032291667 -A-d=zidenassoi.

				10 Drachms. 100 Drachms, or 1 Mina. 1000 Drachms, or 10 Minæ. 1 Myriad (= 1000 Dr.) or 100 Minæ. 10 Myriads (= 10000 Dr.) or 1000 Minæ. 1000 Myriads (= 1 Million Dr.) or 10000 Minæ. 10000 Myriads (= 10 Mill. Dr.) or 100000 Minæ.
	HS. HS. S. HS HS			10 Drachms. 100 Drachms, or 1 Mina. 1000 Drachms, or 10 Minæ. 1 Myriad (= 1000 Dr.) or 100 Minæ. 10 Myriads (= 10000 Dr.) or 1000 Minæ. 1000 Myriads (= 1 Million Dr.) or 10000 Dr. 10000 Myriads (= 10 Mill. Dr.) or 100000 Dr. 10000 Myriads (= 10 Mill. Dr.) or 100000 Dr.
	ions Hions Hions Hions			Min 1000) or 1) or 1
	rtii. DHS OOO I IIIIIO IIIIIIO IIIIIIO IIIIIIII			æ. · 100) or Dr. · Dr. · Dr. · Dr. · Dr. · Or · · · · · · · · · · · · · · · · ·
	Seste 1000 1000 IV 1000 IV 10000 IV 100000 IV 1000000 IV 10000000000			lina. Min T.) ol Dr. Illion Mill achn
	or N. 111. 0000 111. 0000 1111. 01111. 01110. 01110. 01110. 01110. 01110.			r 1 M 20 D 1000 1000 1 M = 10
en.	sterti, or I tertia sterti ertiu tertiu tertiu tertiu tertiu tertiu tertiu lies, Ilies, Ilies, Ilies,			s. ns, o) ms, (= 10((= 1) ss(= ds(;
ertiu	in Sest in Sest in Sest in Sest in Sest in Sest in Mill in Mill in Mill in Sest in Mill in Sest in Ses		hm.	chm: achn rachn ad (: riads yriad fyria
1 Sestertius.	Decem Sestertii or Nummi. Centum Sestertii. Sestertium, or 1000 Sestertii. Decem Sestertia, or 10000 HS. Centum Sestertia, or 10000 HS. Decies Sestertium, or 1 Million HS. Centies Sestertium, or 10 Millions HS. Millies Sestertium, or 100 Millions HS. Centies Millies, or 10000 Millions HS. Centies Millies, or 10000 Millions HS. Millies Millies, or 100000 Millions HS		1 Drachm.	10 Drachms. 100 Drachms, or 1 Mina. 1000 Drachms, or 10 Minæ. 1 Myriad (= 1000 Dr.) or 100 Minæ. 10 Myriads (= 10000 Dr.) or 1000 Mong 1000 Myriads (= 10000 Million Dr.) or 10000 Myriads (= 10 Million Dr.) or 10000 Myriads (= 10 Mill. Dr.) or 10000 Myriads of Drachms, or Myr.
1	0.0807291667	11		
2	01614583333		$egin{array}{c} 1 \\ 2 \end{array}$	03229166
3	01014303333		$\frac{2}{3}$	06458333
4	03229166667		4	
4 5	04036458333		5	$\cdot 129166666 \\ \cdot 16145833$
6	04843750000		6	19375000
7	05651041667		7	$\cdot 22604166$
8	06458333333		8	25833333
9	07265625000		9	$\cdot 29062500$

According to the observations before laid down, it evident that

Lib. 1 Sestertium, or 1000 HS. = 008 ·07291667 2 Sestertia, or 2000 HS. $= 016 \cdot 145833333$

3 Sestertia, or 3000 HS. $= 024 \cdot 21875$ And so down to 9 sestertia; the three first figures o e table being integers, the rest decimals. So,

Decies Sestertium, or 1 Mill. HS. = 8072 ·91667 icies, or 2 Million HS. = 16145 ·83333 ricies, or 3 Million HS. = 24218 ·75 &c.

Hence the value of most of the sums mentioned in assic authors may be discovered from the tables at first the rest by the help only of addition. Thus,

What is the value of the Centies Quinquagies HS?

Centies HS = 80729 ·1667 Quinquagies = 40364 ·5833

Centies Quinquagies = 121093 ·75

What is the value of 375 Attic Drachms?

300 Drachms = 9 ·6875 70 Drachms = 2 ·26041667 5 Drachms = 0 ·16145833

375 Drachms = 12 ·109375

What is the value of 51 Myriads of Drachms

50 Myriads = 16145 ·83333 1 Myriad = 322 ·91667

 $51 \text{ Myriads} = 16468 \cdot 75$

Tote, That the table for drachms or denarii will also e for minæ and for asses, remembering that a denarius jual to 10 asses, and a mina to 100 drachms. Thus,

With the numeral adverb, Centena Millia are always under-

What has been already said will easily be applied those which follow:

					A (TS)	
	Attic Drachm	* /	Attic Talent		Attic Tal	
_	$=8\frac{3}{4}d.$	=	=206l. 5s.	=	=193l.1	5
	l. decim.		1. decim.		1. de	ec
1	0 .034375	1	206 25	1	193	•
2	0 .068750	2	412 .50	2	387	ı
3	0 .103125	3	618 .75	3	581	٠
4	0 ·137500	4	825 .00	4	775	٠
5	0 .171875	5	1031 .25	5	968	٠
6	0 .206250	6	1237 .50	6	1162	
7	0 .240625	17	1443 .75	7	1356	N.
8	0 .275000	8	1650 .00	8	1550	
9	0 .309375	9	1856 .25	9	1743	4
	1000000					-

	1Shekel	‡He	brew Talent	Heb. T	Tal. (
	=2s.7d.	=	=387 <i>l</i> . 10 <i>s</i> .	=16 Ta	1. Sil
	1. decim.		l. decim	•	1 3
1	0 ·129166667	1	38 7 ·5	1	65
2	0 .258333333	2	775 .0	2	124
3	0 ·387500000	3	1162 .5	3	186
4	0 ·516666666	4	1550 .0	4	248
5	0 .645833333	5	193 7 ·5	5	310
6	0 .775000000	6	2325 .0	6	375
7	0 .904166666	7	2712 .5	7	43
8	1 .033333333	8	3100 .0	8	49
9	1 ·162500000	9	3487 .5	9	55
			•		

^{*} According to Dr. Bernard.

[†] According to Dr. Arbuthnot.

† The shekel is here valued equal to 4 Attic drachms, according to Josephus; and this valuation Dr. Arbuthnot has follow his Dissertations, though his tables are according to Bi Cumberland. The talent = 3000 shekels

	ecian Digit.	R	oman Digit.	J e	wish Digit
In.	decim.		In. decim.		In. decim.
0	·75546875	1	0 .72525	1	0 .912
1	.51093750	2	1 .45050	2	1 .824
2	·26640625	3	2 .17575	3	2 .736
3	.02187500	4	2 .90100	4	3 .648
3	.77734375	5	3 .62625	5	4 .560
4	·53281250	6	4 ·35150	6	5 .472
5	·28828125	7	5 .07675	7	6 .384
6	·043 7 5000	8	5 ·80200	8	7 .296
6	·79921875	9	6 .52725	9	8 .208

rec	ian Foot	Ro	man Foot.	J	ewish Cubit
Ft.	decim.		Ft. decim		Ft. decim.
1	.00729	1	0 .967	1	1 .824
2	.01458	2	1 .934	2	3 .648
3	.02187	3	2 .901	3	5 .472
4	.02916	4	3 .868	4	7 .296
5	.03645	5	4 .835	5	9 .120
6	.04375	6	5 .802	6	11 .944
7	.05104	7	6 .769	7	12 .768
8	.05833	8	7 .736	8	14 .592
9	.06562	9	8 .703	9	16 .416

ton	nan Mile.		J ewis	h Mile.	F	Roman Sq. Ft.
lile	decim.		Mile	decim.		7. Ft. decim.
0	.915719	1	1	·3817	1	0 .935089
1	·831438	2	2	·7634	2	1 .870178
2	.747157	3	4	·1451	3	2 .805267
3	·662876	4	5	·5268	4	3 .740356
4	.578595	5	6	·9085	5	4 .675445
5	•494314	6	8	·290 2	6	5 .610534
6	·410033	7	9	6719	7	6 .545623
7	.325752	8	11	.0536	8	7 .480712
8	.241471	9	12	·4353	9	8 .415801

Grecian Sq. Foot.	Πλέθρον.	Jugerum.
Sq. Ft. decim.	Acre decim.	Acre decim.
1 1 0146365	1 0 .230632	1 0 .61824
2 2 .0292730	2 0 '461264	$2 1 \cdot 23648$
3 3 .0439095	3 0 .691896	3 1 .8547
4 4 .0585460	4 0 .922528	4 2 .4729
5 5 .0731825	5 1 .153160	5 3 .0912
6 6 .0878190	6 1 .383792	6 3 .7194
7 7 1024555	7 1 .614424	7 4 .3276
8 8 .1170920	8 1 .845056	8 4 .9459
9 9 1317285	9 2 .075688	9 5 .5641

	•						
Egy	yptian "Apovpa.	E	έση	rns dry.	Sea	ctar	ius dr
	cre decim.	1	Pint	decim.]	Pint	deci
1	0 .763768	1	0	.97447	1	1	.014
2	1 .527536	2	1	·94894	2	2	.025
3	2 ·291304	3	2	·92341	3	3	.044
4	3 .055072	4	3	·89 7 88	4	4	.059
5	3 .818840	5	4	·8 723 5	5	5	.074
6	4 .582608	6	5	·84682	6	6	.088
7	5 ·346376	7	6	·82129	7	7	.10:
8	6 '110144	8	7	.79576	8	8	.11
9	6 .873912	9	8	•77023	9	9	13:

8	6 ·110144	8	7 .79576	{	8 8 111
9	6 .873912	9	8 .77023	9	9 13
			·		
				*	
		_			
	Cab dry.		Medimnus.		Modius.
	Pint decim.	В	ushel decim.	Bu	shel decin
1	3 .84731	1	1 .09612	1	0 .2535
2	7 .69462	2	2 '19224	2	0 .5070
3	11 ·54193	3	3 ·28836	3	0 .7605
4	15 ·38924	4	4 '38448	4	1 .0141
5	19 .23655	5	5 •48060	5	1 2676
6	23 .08386	6	6 .57672	6	1 .5211
7	26 .93117	7	7 .67284	7	1 .7746
8	30 .77848	8	8 .76896	8	2 .0282
9	34 .62579	9	9 .86508	9	2 .2817
	•		•		•

Eéorns liquid.

Ephah.

Sextarius liquid.

Bushel decim.	Pints decim	Pints decim.
0 .802433*	1 1 •1483	1 1 ·19518
1 .604867	2 2 2966	2 2 39036
2 .407300	3 3 44449	3 3 .58554
3 ·209734	4 4 5932	
4 .012168	5 5 .7415	
4 .814601	6 6 .8898	
5 .617035	7 8 .0381	6 7 ·17108 7 8 ·36626
6 .419469	8 9 1864	
7 ·221902	9 10 3347	
11 221002	9 10 9941	9 10 .75662
Cab liquid.	Log.	Amahaya
Pints decim.	Pints decim.	Amphora. Hlids. decim.
3 ·36257	1 0 .84064	1 0 .113821
6 .72514	2 1 '68128	2 0 .227642
10 .08771	3 2 .52192	3 0 .341463
13 .45028	4 3 .36256	4 0 .455284
16 .81285	5 4 .20320	5 0 .569105
20 17542	6 5 .04384	6 0 .682926
23 ·53799	7 5 .88448	7 0 .796747
26 .90056	8 6 .72512	8 0 .910568
30 .26313	9 7 .56576	9 1 .024389
•		1
Metretes.	Bath.	Congius. †
Hhds. decim.	Hhds. decim.	Gall. decim.
0 ·16404	1 0 .114858	1 0 .896385
0 .32808	2 0 .229716	2 1 .792770
0 ·49212	3 0 ·344574	3 2 .689155
0 .65616	4 0 .459432	4 3 .585540
0 .82020	5 0 .574290	5 4 481925
0 .98424	6 0 '689148	6 5 378310
1 ·14828	7 0 .804006	7 6 .274695
1 ·31232	8 0 .918864	8 7 .171080
1 .47636	$9 \mid 1 \cdot 033722$	9 8 .067465

The exact fraction is $\cdot 802433\frac{5}{8}$. In the Jewish measures I we followed Bishop Cumberland. The Ephah, according to osephus, = 1:0961 bushel, and the Cab = $3\cdot874$ pints; the Cab quid = $4\cdot5933$ pints, the Log equal to the Attic $\Xi \acute{e}\sigma \tau \eta s$, and the ith equal to the Metretes.

[†] Equal to the Metretes of Syria.

Attic Drachm	Shekel	Attic Drachm
=62.57 Gr.	=4 Att. Drachms.	=62.57 Gr.
Oz. decim.	Oz. decim.	1b. Trey decim. 1 1 0 · 01085125
1 0 · 130215	1 0 · 52086	
2 0 .260430	2 1 .04172	2 0 .02170250
3 0 ·390645	3 1 .56258	3 0 .03255375
4 0 .520860	4 2 .08344	4 0 .04340500
5 0 .651075	5 2 .60430	5 0 .05425625
6 0 .781290	6 3 .12516	6 0 .06510750
7 0 .911505	7 3 .64602	7 0 .07595875
8 1 .041720	8 4 ·16688	8 0 .08681000
	9 4 .68774	9 0 .09766125
9 1 ·171935	3 4 00111	
Shekel	Shekel	Roman Libra
=219 Gr. Troy.	=4 Att. Drachm.	lb. Troy. decim
b. Troy. decim.	1b. Troy. decim. 1 0 .043405	1 0 .9125
1 0 .0380208 }	2 0 .086810	2 1 .8250
2 0 .07604163		3 2 .7378
3 0 .1140625		4 3 .6500
4 0 ·1520833 3	4 0 .173620	
5 0 ·19010414	5 0 .217025	5 4 .562
6 0 .2281250	6 0 .260430	6 5 .475
7 0 .26614581	7 0 ·303835	7 6 387
8 0 ·30416663	8 0 ·347240	8 7 .3000
9 0 .3421875	9'0 ·390645	9 8 .212
010 0.22010		1
		4
4		1

MISCELLANEA.

SECTION VI.

THE PROPORTION OF THE DIAMETER TO THE CIRCUMFERENCE OF A CIRCLE: THE AREA OF A CIRCLE AND ELLIPSIS: THE SURFACE AND SOLIDITY OF A SPHERE.

Diameter: Periphery:: 7:22 [Di:peri::p:ed], or :: 113:355, or more exactly, the Diameter: Periphery:: 10.000,000: 31.415,929.

Di : peri :: p : ed :: bat : ilu : Dia : priph :: azmíl : ta-fal-oudou.

According to Van Ceulen, who carried the proportion to six and thirty figures, which, in memory of so laborious a work, were engraven upon his tomb at St. Peter's, in Leyden, the Diameter: Periphery:: 2.

Quintil. Quadr. Tril. Bil. Mil. Un. 6,28,318.530,717.958,647.692,528.676,655.930,576. s, ektak, uïz-pap, nuk-sóp, sne-lek, aúps-sul, ouïz-lois.

The Diameter multiplied by 3.1416 gives the Periphery [Diperi, bobs dat priph], consequently the periphery divided by 3.1416 gives the diameter.

The AREA of a circle is given by multiplying the

SQUARE of the D-iameter into 0.7854.

Datur Area Squa-d per y,peilo.

The Area likewise is given by multiplying the fourth part of the Diameter into the Periphery—Ar=redi+pe.

The AREA of an ELLIPSis is given by multiplying the rectangle of the Transverse and Conjugate Diameters into 0.7854.

Area fit Ellips. Dia-tran-con-duct. in y, peilo.

The Surface of a sphere is given by multiplying the Periphery into the D-iameter—Surf—pe+d.

The Surface of a sphere is also given by multiplying

the AREa of its largest circle into 4-Surf=are+o.

The Solidity of a Sphere is given by multiplying to the Radius into the Surface—Sol-sphe=rirad+sur.

The Memorial Lines.

Di : peri :: p : ed :: bat : ilu. Dia : priph :: azmil : ta fal-oudou.

s, ektak, uïz-pap, nuk-sóp, sne-lek, aúps-sul, ouïz-lois. Diperi, bobs dat Priph. datur Area squa-d per y, peilo.

Area fit Ellips. Dia-tran-con-duct. in y, peilo.

Ar=,rodi+pe, Surf=pe+d, Surf=are+o, Sol-sphe=,rirad+sur.

THE QUANTITY OF VAPOURS RAISED OUT OF THE SEA, ESTIMATED BY DR. HALLEY.

The Mediterranean, supposed to be equal to 160 squar Degrees, is computed to yield in vapour, per diem, 528 Millions of T-ons—Med=dégbauz=lekymil-t.

The THAMES is computed to carry down in a day of 2 hours, into the sea, 20.300,000 Tons—Tham=ez-igthton

The rivers (FLUvii) which run into the MEDiterranear are computed to carry 1,827.000,000 T-ons, which is little more than of what is raised in vapour—Fluv-Me =aképmil-t.

The Memorial Line.

Med = dégbauz = lekymil-t. Tham = ez-igthton. Flux $Med = ak\acute{e}p$ mil-t.

The computations are made thus:

By experiments it appears, that each SQUARE F-oot of the surface of water yields in vapour, per diem, Half a wine PINT—Squa-f=ha-pin.

Each space of four feet square (=16 Square F-eet)

yields a GALlon—assqua-f=gal.

A MILE square, 6914 Tons-Mil=snafton.

A square Degree (of 69½ English Miles) 33.000,000 Tons—Dég (misou) timton.

The Mediterranean=square 160 degrees=5,280.000,000

tons, as above.

The Memorial Line.

Squa-f=ha-pin, assqua-f=gal, Mil=snafton, Dég (mison, timton.

The quantity of water the Mediterranean receives from the rivers that fall into it, is estimated thus:

The most considerable rivers that run into the Mediterranean are the Ebro, the Rhone, the Tiber, the Po, the Nile, the Don or Tanais, the Danube, the Niester, the Nieper or Borysthenes. Each of these is supposed to carry down ten times as much water as the Thames not that any of them is so great, but so to allow for the small rivers that run into that sea. Now the water of the Thames being computed at about 20.300,000 tons, as above, the nine rivers aforesaid each will amount to 203.000,000; in all, 1,827.000,000 T-ons.

The Memorial Lines.

Thám=ez-igth-t, Eb-Rho-Ti-Po, Nil-Don, Dan-Niest-Nieper-aképmil-t.

The water of the Thames is computed thus:

It is supposed to run at Kingston bridge, where the tide reaches not, at the rate of two miles an hour, which

is 48 miles in 24 hours; 48 Miles are equal to 48,480 Yards—Mifk=Yako-feiz; which, being multiplied by 300 Yards (the Profile of water at Kingston bridge, where it is supposed to be 100 yards broad and 3 deep), produces 25.344,000 cubic Y-ards of water—Yako-feiz per ig=Yél-tfoth; which are equal to 20.300,000 Tons—ez-igthton.

The Memorial Line.

Mifk=Yako-feiz (Kin-prig) Yako-feiz per ig=Yél-tfoth =ez-igthton.

THE VELOCITY OF SOUND, LIGHT, &c.

A cannon bullet (GLOBUS tormento bellico emissus) IN a Second, moves 204 YARds—In-sec Glob-yarezo.

Light (Lumen) in a second moves 200,000 MILES-

Lu-milegth.

Sound (Sonus) moves in a second 1142 feet (Pedes)
—Son-ped-movetabfe.

A cannon bullet moves a M-ile in 17 Half Seconds-

Glob-m-ápha-sec.

Sound moves a mile in 9 half seconds 1 - Sonn, ro.

A cannon bullet would be in moving to the Sun (An Solem) 32½ years—Ad-Sol-glob=án-te,re.

Sound would be in moving to the Sun 17 years—Sonap. The descent of heavy bodies (Descensus Gravium) is 16 F-eet 17, or an inch, in a Second—Des-gravi-sec = Fas, rad; and in more seconds as the squares of those times.

A PENDULUM of 39 Inches 2 tenths [Pendulum Intou,d] oscillates or vibrates Seconds—Oscil-Sec-Pendulum-intou,d.

The Memorial Lines.

In-sec Glob-yarezo, Lu-milegth, Son-ped-movetabfe. Glob-m-ápha-sec, Sonn, ro, Ad-sol-glob=án-te, re, Sonap Des-gravi-sec=Fas, rad, Oscil-sec-Pendulum-intou, d.

THE JEWISH MONTHS.

						- 1				
Nisan o	r A	Blb	•	•						*March
ZIF or J	-air							•		Anril
Sivan.			Ť	•	•	•	•	•	•	May
THAMUZ	•	•	•	•	•	•	•	•	•	
A P	•	•	•	•	•	•	•	•	•	June
AB.	•	•	•	•	•	•	•	•	•	July
ELUL.	•	•	•		•	•	•	•	•	August
Tizri or	ET	HE	nım	1	•	•	•	•	•	September
Bul or l	M-e	rche	SVa	an	•	•	•	•	•	October
CHISLET	J .	•	•		•	•	•	•		November
THEbeth	1.	•	•							D ecember
SHEBeth		•	•							January
Apar or	Vea	adar								February
				-	-					- coaduly

The Memorial Lines.

Nis-AbiMar, Zif-JAp, SiMa, Thám Jun, AbJul, Elúl Aug, Tizr-Ethe Sep, Bul-MOc, ChisleuN, The De, Sheb Jan & Ad Feb.

THE GRECIAN MONTHS.

ΈΚατομβαιών		•		•	•		•	June
ΜΕΤΑΓΕΙτνιώ	ν.							July
ΒΟΗΔΡομιών				•			•	August
ΜΑΙμακτηριών		•		•	•	•	•	September
ΠΥΑΝεψιών .	•	•	•	•	•	•	•	October
ΠΟΣειδεών .		•	•	•	•	• \	•	November
ΓΑΜηλιών .	•	•	•	•	•	•	•	· December
'ΑΝΘΕΣτηριών	•	•	•	•	•	•	•	January
ΈΛΑφηβολιών		•	•	•	•	•	•	February
ΜΟΥνυχιών .								March
ΘΑΡΓΗΛιών .								April
ΣΚΙΡροφοριών		•						'79 . W'
								_

The Memorial Lines.

HecJu, MetageiJul, BoedrAug, MaiS, PúanO, PosNov, GamDecem, AnthesJan, ElaFeb, MouM, ThargelA, SkirMa.

[•] i.e. part of March and part of April, and so of the rest.

Note, That the Athenians began their year from the new moon, whose full was next after the summer solstice, which was at first reckoned to be upon the 8th of July, after on the 27th of June. Vide Beveregii Chron. Instit. lib. i. cap. 12.

JEWISH AND CHRISTIAN ERA OF THE CREATION.

Both Jewish and Christian writers make use of the era of the creation of the world; but there is great variety of opinions concerning the number of years between that and the birth of Christ. That which is most generally received is, that the first year of the vulgar Christian era commences from the day of his circumcision, viz. the first of January, in the year of the world 4004, and of the Julian period 4714. The Jews place the creation of the world later by about 243 years; and the Greek historians, upon the authority of the Septuagint, sooner by about 1490 or 1500 years; so that

Oct.	17	of the		the 3762d year of the
000	*	first		Jewish era
A	OPT	year	>began <	the 5494th of the GREEK
Aug.	21	of the	began	Ecclesiastical era
G 4	7	Christian		the 5509th of the GREEK
Sept.	1	era J		Civil era

The Memorial Line.

Christ=mundothf, Jud=ipaud, Grec-ecc=lonf, Grec-civil=ulzou.

THE DAYS OF THE MONTH ON WHICH THE OTHER NOTED EPOCHAS BEGAN.

6774 B 0 000							${f B}$ ef,	Christ
The destruction of Troy			•	•	•	June	16.	1183
+The first OLYmpiad .	•	•	•	•	•	June	19.	776
The building of Rome	•	•	•	•	•	April	21.	753

^{*} For the years, see page 7.

[†] The last day of the Olympic games was upon the full moor immediately after the summer solstice.

Ounces Troy. decim.

ATS CAT								Bef.	Christ.
Era of NABonassar	0	•	•	•		•	Feb.	26.	747
The Philipic era.				\			Non-	12.	324
Era of Contracts.							Oct.	1.	312
The Victory at Activ	ım	•	•		•		Sept.	2.	31
								Am	Dom
The Droclesian era		•		•			Aug.	29.	284
The MAHometan era							Julu	16.	622
The era of YEZdegird	•	•	•	•	•	•	June	16.	632
The									

Mund=Octoi, Oly-Jan, Phil-Nad, Nab-Fés, (bosa) Ro-pda,

Yez-Troy-Jas, Maho-las, Dio-gen, Vict-Acta-Se, Con-ta.

THE SPECIFIC GRAVITIES OF SOME METALS AND OTHER BODIES.+

Fine Gold—Aur=az,iloud	=	10	.359273	
Fine Silver—Arg=l,eil	=	5	*850035	
	Ounces A	verd	d. decim.	
Lead—Plum=s, luthul	=	6	.553855	
Common Iron—Fer=f,oden	=	4	·422979	
Fine Marble—Mar=b,laukk	=	1	·568859	
Common Glass—Vitru=b,oniz		1	·493037	
Com. clear Water—Aqua= b , loiks	soup=	1	·578697	
Sound dry Oak-Robo =, lislaun	-	0	·536569	
Oil Olive—Ol-Ole=,lektuz	=	0	.528350	

A cubic inch of

The Memorial Lines.

Aur=az,iloud, Arg=l,eil, Plum=s,lutkul, Fer=f,oden, Mar = b, laukk,

Vitru=b,oniz, Aqua=b,loiks, Robo=,lislaun, Ol-Ole= .lektuz.

+ See Ward's Mathematician's Guide, part i. chap. 10.

[•] The Nabonassarean years, not admitting any intercalary day began, after every four years, a day sooner, and in 1461 years (bosa) went back throughout the whole Julian year, and began on the same day again.

The beginning of the technical words is from the Latin words for each.

NUMERUS DIGNITATUM, &c. TEMPORE CAMDENI.

*Sunt in Anglia Decanatus 26, Archidiaconatus 60, Dignitates & Præbendæ 544, Ecclesiæ Parochiales 9284 e quibus 3845 sunt Appropriatæ. In libro tamen Thomæ Wolsæi Cardinalis descripto 1520, per comitatus numerantur ecclesiæ 9407.

The Memorial Line.

Sunt Decanes, Archdauz, Præblof, Parochoudeif, Apprikfu.

THE TEMPLE OF THE EIGHT WINDS, MENTIONED IN DR. POTTER'S ARCHÆOLOGIA.

Εύρος .	•		•	•	Eurus	•		•	S-outh E-ast.
					Subsolanus				
									N-orth E-ast.
									N-orth.
									North W-est.
					O-ccidens				
									S-outh.
Λ - $i\psi_{S}$.	•	•	•	•	Africus .	•	•	•	South W-est.

The Memorial Line.

Cæci=NE, $\Sigma \kappa \iota$ -Cor=NoW, $E \hat{\iota}$ =SE, Λ -Af=SoW, Bór=N, ' $\Lambda \pi$ =E, Not=S, Z-O=W.

ACCORDING TO AULUS GELLIUS, THE WINDS ARE THUS DISTINGUISHED:

Septentrio			. Απαρκτίας	•	•	•	North.
Eurus	•	•	. Subsolanus	•	•		East.
Auster			. Notus	•	•	•	South.
Favonius.		•	. Zephyrus.	•	٠	•	West.
Boreas .	•	•	. Aquilo .	•		•	North East
Vulturnus	•	•	. Euronotus		•		South East.
Caurus .	•	•	. Άργεςτής .	•	•	•	North West.
Africus .	•	•	. Libs			•	South West.

[·] Camden: Britannia, edit. Jans. p. 67.

ROMAN MILITIA.

A LEGION = 10 Cohorts.
A COHORT = 3 MANipuli.
A MANIPULUS = 2 ORdines.
A TURMA = 3 DECURIOS.

10 T-urmæ were the justus equitatus, or horse belonging to a Legion.

The Memorial Line.

Legi=Coaz, Coho-Mant, Manip=Ord, Turm=Décuri, Taz-Le.

ROMAN LAW.

Primus fundus Jurisprudentiæ Romanæ, Legum Regiarum fragmenta, (quæ a Sexto Papirio olim in unum corpus collecta fuerant) sc. trium Regum Romuli, Numæ et Servii Tullii; secundus, leges 12 Tabularum; tertius, Edictum Perpetuum quod (Adriani Imp. Authoritate) a Salvio Juliano conditum atque in titulos digestum.

Codex Justinianus compositus ex codicibus Gregoriano, Hermogeniano atque Theodosiano, novellisque post eos

positis constitutionibus.

GREGorianus et HERMogenianus nominantur ab authore. Prior codex ab A-driano ad VALerium latas leges continebat, secundus a CLAUdio ad Diocletianum; Theodosianus leges Constantini ad Theodosium. Novellæ a Theodosii temporibus ad Justinianum.

The Memorial Lines.

Leg-reg (Pap) Ro-Nu-Serv, Tabulad, Ed-perp (Adri) Salv-Jul.

Greg=A-Val, Herm=Clau-Di, Theo=Const-The, Nov=Theo-Justin.

The first Code of Justinian was published anno 529, the Digests anno 531, the Institute anno 533, the Second Code anno 534, the Novells from the year 535 to 558.

The Memorial Line.

Cod-prilen, Diglib, Instlit, Co-selif, Novelil-luk.

THE BISHOPS* WHO REFUSED THEIR ASSENT TO THE 'Ομοούσιον.

Eusebius, bishop of Nicomedia.
Theognis, bishop of Nice.
Maris, bishop of Chalcedon.
Theonas, bishop of Marmarica.
Secundus, bishop of Ptolemais.

The Memorial Line.

Eu-Nico, Theog-Ni, Mar-Chal, Sec-Ptol, Theo-Marmar

THE TEN PERS-ECUTIONS UNDER

Nero, Domitian, Nerva, Antoninus Plus, Severus Maximin, Decius, Valerian, Aurelian, Dioclesian.

The Memorial Line.

PERS = Ne-Do-Nerv-AntPi-Sev-Max-De-Val-Aure Diocles.

THE ELECTORS OF GERMANY

Were the Archbishop of Mentz, Triers, and Cologn Elector Palatine of the Rhine, the King of Bohemis the Electors of Bavaria, Saxony, Brandenburg; the Elector of Hanover was added, Anno Dom. 1693.

The Memorial Line.

Men-Trí-Co-Rhin-Bohe-Bay-Sax-Branden; Hanov ad sout.

[•] Ταύτην την πίστιν τριακόσιοι μέν προς τους δεκαοκτώ, έγνωσαν καὶ έστερξαν καὶ ώς φησιν ὁ Ευσέβιος, όμοφωνήσαντες καὶ όμοδοξήσαν έγραφον πέντε δὲ μόνοι οὐ προσεδέξαντο, της λέξεως τοῦ όμοουσ ἐπιλαβόμενοι. Εὐσέβιος ὁ Νικοιεδείας, &c.-Socratis Historia Ecc siastica, lib. i. cap. 8.

THE QUINQUARTICULAR CONTROVERSY, CONCERNING

1. Predestination. 2. Free-will (LIBERUM Arbitrium). 3. The force of Divine Assistance (Auxilium). 4. Perseverance. 5. The extent of Redemption.

The Calvinian doctrine upon these points, handed from Geneva by the English refugees, and propagated by CARTwright in the Margaret professor's chair at Cambridge, was, at a consultation of several prelates and divines at Lambeth, digested into nine articles, commonly called the Lambeth Articles, and agreed upon N-ov. 10, 1595-Naz-aloul; but, by order of Queen Elizabeth, were immediately recalled and suppressed.

The Memorial Line.

Lamb-Art=Cart-Naz-aloul, Predés-Liber-Auxili-Pers-Red.

THE SEVEN PRECEPTS (SEPT-EM PRÆCEPT-A) OF THE SONS OF NOAH ARE RECORDED BY THE JEWISH DOCTORS UNDER THE FOLLOWING TITLES:

I. To worship the true God (Cultus divinus).
II. To renounce Idolatry.
III. To commit no murder (Cædes).
IV. Not to be defiled with fornication, &c. (Stuprum).
V. To avoid all rapine, theft, &c. (Furtum).
VI. To administer justice (Justitia).
VII. Not to eat the flesh with the blood (Sanguis).

Such Gentiles as were admitted to the worship of the lod of Israel, and the hope of a future life, but were not ircumcised, nor yet conformed to the Mosaical rites, being nly obliged to the observation of the foregoing precepts, vere called proselytes of the gate, in opposition to the roselytes of righteousness, or of the covenant, who differed othing from the Jews, but that they were of Gentile race. ee Lewis's Hebrew Antiquities.

The Memorial Line.

SEPT-PRÆCEPT=Cul-Idol-Cæd-Stup-Furt-Jústiti-San guis.

MISNAH, GEMARAH, TALMUD.

The MISNAh in 6 B-ooks [Misna-bs] contained 68 Tracts [Traut], into which the traditions or oral law of the Jews were methodically digested by Rabbi Judál HAKKADosh in the time of Antoninus P-ius-Hakad AnP. As soon as it was published, it became the sub ject of the study of all their learned men, and the chiefes of them, both in Judæa and Babylonia, employed them selves to make comments upon it; and these, with the Misnah, make up both their Talmuds, i.e. the Jerusalen Talmud and the Babylonish Talmud. These comment are called the GEMArah or complement, the Misnah th ext; both together the TALmud—Tal=Mis-Gema. Th Jerusalem Talmud was completed about A.D. 300—Tál Jerig. The B-abylonish TALmud about 500, or in th beginning of the sixth century-Tal-Bug. This latter i only in esteem among the Jews. See Prideaux's Connexion p. 328.

The Memorial Line.

Misna-bs-Traut-Hakad-AnP, Tal=Mís-Gema, Tál-Jeric Tal-Bug.

CHARACTERS ARITHMETICI GRÆCI ET HEBRAICI.

The decads and hundreds will be easily distinguished from each other, and therefore only the first figure added, 5i sc. 5=3, i.e. 30; 7e sc. 7=2, i.e. 200. Prounce 50u kopou, 50u sanpou, 50u thauf, 50u tsadou.

HE AGES OF CHRISTIANITY AS DISTINGUISHED BY DR. CAVE, ACCORDING TO WHAT WAS MOST REMARKABLE IN EACH CENTURY.

Cent. I. Sæculum Apostolicum. II. Sæculum G-nosticum. Cent. III. Sæculum Novatianum. Cent. IV. Sæculum ARIanum. Cent. V. Sæculum NESTorianum. Cent. VI. Sæculum Eurychicum. Cent. VII. Sæculum Monotheliticum. Cent. Cent. VIII. Sæculum Elconiclasticum. Cent. IX. Sæculum Photianum. X. Sæculum Obscurum. Cent. Cent. XI. Sæculum HILdebrandinum. Cent. XII. Sæculum WAldense. Cent. XIII. Sæculum Scholasticum. Cent. XIV. Sæculum Wicklevianum. Cent. XV. Sæculum Synodale. Cent. XVI. Sæculum R-eformatum.

The Memorial Line.

lp-G-Nov Ari-Nest Eut-Monoth Eic-Phot-Ob Hil-Wa-Scho Wick-Sy-R.

CALLED NOTITIA IMPERII, SAID TO BE WRITTEN ABOUT THE TIME OF ARCADIUS AND HONORIUS.

The whole empire was divided into 13 Dioceses, under Præfecti Prætorio, and about 120 Provinces conined in them—Præf=dibi=pradz.

1. The Præfectus Prætorio Orientis, and under him ve dioceses, viz. the Oriental, E-gyptian, Asiatic, Pon-

2, and Thracian dioceses—Or=E-As-Po-Th.

2. The Præfectus Prætorio of Illyricum, and under him o dioceses, viz. Macedonia and D-acia—Ill=Ma-D.

3. The *Præfectus Prætorio* of Italy, and under him three dioceses, viz. Italy, Illyricum, and Africa—It=It-Il-Af.

4. The *Præfectus Prætorio* G-alliarum, and under him three dioceses, viz. Hispania, GAllia, and B-ritannia—G=His-Ga-B.

The Memorial Line.

Præf=dibi=pradz, Ill=Ma-D, Or=E-As-Po-Th, It=It-Il-Af, G=His-Ga-B.

THE DIMENSIONS OF THE ARK AND TEMPLE.

The length (Longitudo) of the ARK, 300 Cubits—Ark-lo-cubig; the Breadth 50 cubits; the height (ALti-

tudo) 30 cubits—Bruz-aliz.

The length of the Temple which King Solomon buil for the Lord was 60 cubits, the Breadth thereof 20 cubits and the height thereof 30 cubits (1 Kings vi. 2)—Temlónsy-brez-alty. The length of the Porch 20 cubits, the height thereof 120 cubits (2 Chron. iii. 4)—Porez-bez.

The Memorial Line.

Ark-lo-cubig-bruz-aliz, Tem-lonsy-brez-alty, Porez-bez

COMPUTATION OF THE COST, VESSELS, VESTMENTS, &c. OF SOLOMON'S TEMPLE.

By Villalpandus's computation of the number of Talent of gold, silver, and brass, laid out upon the Temple, th sum amounts to 6904.822,500l. sterling—Tal-tem=souze ked-ug. And the jewels are reckoned to exceed this sun

Vessels of gold (VASA AUREA) consecrated to the us of the Temple, are reckoned by Josephus 140,000—Valaureabózth; which, according to Capel's reduction of the tables contained in them, amounts to 545.296,203 pound sterling—lol-enáu-dyt.

The vessels of silver (VAsa Argentea) 1.340,000 [Vasaratozth] are computed at 439.344,000l.—fin-tofth.

Priests' vestments of silk (VESTes SERICæ) 10,000-

Vest-sericazth.

P-urple vestments for singers 2.000,000—Pem; Trumpets 200,000—Tregth; other musical Instruments 40,000—Instroz.

Besides these charges, there was that of the other materials, and of 10,000 men per month in Lebanon to hew down timber (Sylvicidæ)—Silvicidæ. To carry burthens (Vectores) 70,000—Vectoiz. To hew stones (Lapicidinæ) 80,000—Lapiky; and 3,300 overseers (Episcopi)—Episcoptig; who were all employed for 7 years (Annis Septem), to whom, besides their wages and diet, Solomon gave a free gift 6.733,977l. (Donum Solomonis)—s-paut-noip. The treasure left by David towards carrying on this work (Reliquit David) 911.416,207l.—nab-oás-dyp.

N.B. th is left out, as Sylvicidaz for Sylvicidazth, &c.

it being impossible to mistake 10,000 for 10.

The Memorial Lines.

Tal-tem=souzo-ked-ug, Vas-aureabózth=lol-enáu-dyt, Vas-áratozth=fin-tofth, Tregth, Instroz, Vest-sericáz, Pem. An-sept Sylvicidaz, Lapiky, Vectoiz, Episcoptig, Don-Solomo-s-paut-noip, reliquit Dav-nab-oás-dyp.

The number of those that returned (Reduces) from the captivity were 42,360—Redufe-tauz; besides Proselvites 7,337—Proselvitip.

The particular sums in Ezra's CATalogue amount to

29,828 - Cat-Ezdou-kek.

The particular sums in Nehemiah's Catalogue, 31,031—Cat-Nehetazib. How these accounts are reconciled, see the Index to the Bible.

The Memorial Line.

Redufe-tauz-Proseloitip, Cat-Ezdou-kek, Cat-Nehetazib.

The Silver of them that were numbered of the Congregations was a hundred Talents, and a thousand seven hundred and threescore and fifteen Shekels after the shekel of the sanctuary, a Bekah for every man, that is half a shekel after the shekel of the sanctuary, for every one that went to be numbered, from twenty years old and upwards, for six hundred thousand and three thousand and five hundred and fifty men. Exod xxxviii. 25, 26.

The Memorial Line.

Sil=Con=Talg-shékapoil, Beksyt-luz=Shekelizappu.

DIFFERENCE OF TALENTS.

					At	tic Minas.	Attic Drachn	Q
A Syrian TALent conta	ine	d	•	•	•	15	1500	
A PTOLEMaic Talent.						20	2000	
An Euboic Talent						60	6000	
An ALEXANdrian Tales						120	12000	
An Antiochian Talent.						60	6000	AL COMP
A larger Attic Talent			•			80	8000	
A BABYLonish Talent	•	•				70	7000	10
An Æginean Talent	•	•	•	·		100	10000	
*A Rhodian Talent.	•	•	•			100	10000	,
						80	8000	
A Tyrian Talent	•	•	•	•	•	80	8000	
An Egyptian Talent	•	•	•	•	•	00	3000	1

The Memorial Lines.

Tal-Syr=Mal, Ptolem=ez, Eub=auz, Alexan=bez
Ant=auz,
Att-maj=eiz, Babyl=oiz, Ægin=ag, Rh=ag, Ty
Egypt=eiz.

I shall conclude with two lines, just to show how, this method, may be remembered the year and chapter

[•] According to some, the Rhodian talent contained but 4? Attic drachms, and the Euboic but 4000. Vide Brerewood Ponderibus et Pretiis, cap. 9.

ny particular statute. Those to whom a hint of this ature may perhaps be thought useful, are best capable of pplying and improving it as they shall see occasion.

An Act for prevention of FRAUDS and Perjuries, 29

DAROL. II. c. 3.—Fraud-Carolen-t.

An Act against abuses in presentation to benefices Simony) 31 Eliz. c. 6.—Sim-Elib-s.

The Bill for first fruits (PRIMITIZE) 26 H-en. VIII.

. 3.—Primit-Hes-t.

An Act for the dissolution of Monasteries.

The lesser 27 H.VIII. c. 28
The greater 31 H.VIII. c. 11

-Monast-Hep-ek, ib-ba.

The Memorial Line.

Fraud-Carolen-t, Sim-Elib-s, Primit-Hes-t, Monast-Hep-ek, ib-ba.

To remember the several statutes relating to the same ubject must needs be more difficult, as there is but one eading syllable for the whole line; but may be done in he following manner:

Some of the principal acts which relate to the poor PAUPeres) are 43 ELiz. c. 2. 13, 14 CAR. II. c. 12. 3, 4 William and M-ary, c. 11. 8, 9 Will. III. c. 30.

), 10 WILL III. c. 11 12 Ann, c. 18.

The Memorial Line.

Paup-Elot-e, Carat-ad, Wi-Mt-ab, Wilk-iz, n-ab, Anad-bei.

LOWE'S MNEMONICS.

DR. WATTS, in his Essay on the Improvement of the Mind, near the conclusion of the 17th chapter, where he more especially treats of Improving the Memory, makes

the following observation:

"Dr. Grey, in his book called Memoria Technica, has "exchanged the figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, for "some consonants, b, d, t, f, l, s, p, k, n, z, and the "vowels a, e, i, o, u, y, with several diphthongs, and "thereby formed words that denote numbers, which may "be more easily remembered: and Mr. Lowe has im-"proved Dr. Grey's scheme in a small pamphlet called "MNEMONICS DELINEATED, whereby in a few leaves "he has comprised almost an infinity of things in science "and common life, and reduced them to a sort of mea-"sure like Latin verse."

Under sanction of the great authority above quoted the publisher of the present edition has annexed Mr Lowe's tract, which the author originally intended botl as a supplement to and an improvement of Dr. Grey's method; accordingly asserting in his advertisement, tha "most of the articles are what perhaps did not occur to "Dr. Grey; and the rest are reformed to good purpose " particularly those of Weights, Coins, and Measures, o "which I have given a full account in less than eigh "pages, whereas the Doctor's, though very defective

"amounts to twenty-eight."

The two schemes are now before the reader, to use whichever seems best; and though Mr. Lowe's is, in some nstances, little more than a repetition of Dr. Grey's plan, yet it has been thought advisable to reprint the whole at ull length, and even to follow his peculiar mode of spellng, as most consistent with brevity. It may also be necessary to premise, that Mr. Lowe's astronomical calcuations are according to the old style, and his geographical livisions are as they existed in the year 1737, the time when his pamphlet was first published; which disagreenent with the present period it is hoped the industry and agacity of the learner can easily rectify, by composing ew technical words, which may be more easily rememered than those formed by another; these works being riginally designed more as specimens of what might be one by attention, than as complete sets of tables in the arious branches of learning and science.

THE KEY.

DIRECTIONS FOR THE BETTER LEARNING TO REMEMBER FIGURES OR NUMBERS EXPRESSED BY LETTERS.

a	e	i	0	u	au	oi	ei	ou	y
1	2	3	4	5	6	7	8	9	ő
					S				

g 100, th 1,000, m 1.000,000. r denotes fractions, as follows; ,ro $\frac{1}{4}$, ,iro $\frac{3}{4}$, d,eri $2\frac{2}{7}$, ag $\cdot 01$.

ARITHMETIC.

ARITHMETICAL CHARACTERS.

+ and; - less; × multiplied-into; ÷ divided-by, is, gives.

THE DIVISION OF THE OLD ROMAN AS, VIZ. ANY INTEGER OR WHOLE.²

Uncia.	Sext.	Quă.	Triens.	Quinc.	Sem.	Sept.	Bes
		Da	odră. D	ext. Deu	•	_	

As, parts	•	•	•	12	Semissis.	•	•	•	6
Deunx .	•	•	•	11	Quincunx		•	•	5
Dextans.	•			10	Triens .	•	•	•	4
Dodrans.	•	•	•	9	Quadrans		•	•	3
Bessis .	•	•	•	8	Sextans.	•	•		2
Septunx.				7	UNCIA.	•	•		1

COINS.

COINS REDUCED TO FARTHINGS.

Gui-bzyk. Car-băzo. Jac-beg.

2 H. Ger-f.] Be-li. Sh-abz. *Man-sups. †Tal-idei

feil.] Sh-aple. Tal-um dusth.

3 G. Lep-, tăritau. Dichăl-a, pref. ob-u, rau.] *Dr-i "Stăter-ado.

4 R. T,oipŭrăth. §As-t,raz.] Ses-p,irf. V-al,r Dĕn-ib. Sp-oĭl.] Aŭr-oipu.

DRACHM.] Heb-is. Att-ti. Alex-oid—MIN
Att-tig. Ital-eheiz.
TAL.] Att-boukth. Bab-etath.] Att-ibau

eig. Bab-im-äunsth. R-akyth.
STATER (gold) Att-poil. Cyz-Phil-Alex-da

Croes-Dăr'i-buly.

As weighed Ounces-ad, U-C-bouz': e; fou
a; lip: -ăre; leis.

MONEY.

SUMS OF MONEY, OR MONEY OF ACCOUNT.

5 { (E) Penn-f. Gr-as. Pound-ousy. (G) T. Min. ÆgY-g=ubss. Ant-sy=g.

{ Bab-oi=tuns. Pt-az=azti. Syr-al=poil. Tyrian-eiz=fatt.

(R) SESTERCE—tŏ-ath, duo, bini nummi—tŏ-am, duo, bina,

-stertia: or millia sestertiûm,—above, by the adverbs, as follows:

Bis sestertiûm, or bis; understanding millia centum (or centena).

Abbreviatures explained.

Æginéa mina, talentum, (lin.) 5. Alexandrina drachma, *; stater, \(\). Angel, 1. Antiochica min. tal. 5. As, 4, \(\). Attica drachma, *; mina, *; stater, \(\); talentum, \(\). Aureus denarius, 4. Babylonica min. tal. \(\); Bekah, 2. Carolus, 1. Cræsius stater, \(\). Crown, 1. Cyzicénus stater, \(\). Daricus stater, \(\). Denarius, 4. Dichalcos, 3. Drachma, 3. Gerah, 2. Groatc, 5. Guinea, 1. Hebraica drachma, \(\). Jacobus, 1. Italica mina, *. Lepton, 3. Manch, 2. Mark, 1. Minac, *, 5. Noble, 1. Obolus, 3. Pennyc, 5. Philippicus stater, \(\). Pound, 5. Ptolemaica min, tal. 6. Románum talentum \(\)* Seslemaica min. tal. 6, Románum talentum, †. Sestertium, 7. Sestertius, 4. Shekel, 2. Shilling, 1. Sportula, 4. Stater, 3. Syria min. tal. 6. Talen-lum^c, 2, 5. Teruncius, 4. Tyria min. tal. 6. Vicoriátus, 4.

Synonyms and Equivalents.

Æs, as. Assarium, as. Attica minor mina=antiochica. Attica major mina=tyria. Bigátus, denarius. Centussis, 100 asses. Chalcos, ½ dichalchos. Decusis, 10 asses. Didrachmon, 2 drachmæ. Diobelon, oboli. $Dupondius^c$, 2 asses. Eub @ a mina = aniochica. Hemiobolon, $\frac{1}{2}$ obolus. Laureat, carolus Libella, as. Libra (or libra pondo) = mina attica.

Mna, mina. Nonussis, 9 asses. Nummus, sesterius. Obolus, ½ noble. Octussis, 8 asses. Pentarachmon, 5 drachmæ. Pondo, v. libra. Quadrans

1 as, 1 noble. Quadrigátus, denarius. Quadrussise, 4 asses. Quinarius, victoriátus. Quinquessis^c, 5 asses. Rhodia = æginea. Sembella, semilibella. Semilibella, ½ libella. Semuncia, ½ uncia. Sescuncia, 1½ uncia. Sextans, c 1 as. Sextula, c 1 uncia. Solidus, aureus. Tetradrachmon, 4 drachmæ. Tetro bolon, 4 oboli. Tressis, 3 asses. Tricessis, 30 asses. Tridrachmon, 3 drachmæ. Treinse, 1 as. Triobolon, 3 oboli. Vigessis, 20 asses. Unciac, 1 as.

1. N. B. The several coins, measures, and meights, being reduced to the lowest denominations, the memorial verses answer all the purposes of the largest tables: (1) The difference of any two terms being known by subtraction^a: and (2) How many of any make one of another, by division^b.—e.g. (a) What is the difference between a Shilling and a Shekel? Answ. (Sh-ab:) 110-(Sh-ok) 48 = 62 q. i.e. S 2:3:2—S 1 = S 1:3:2, the sheke more than the shilling. (b) How many Spans make a Fathom Answ. (Fath-oid) 72—(Spa-a) 0—8 Answ. (Fath-oid) 72: (Spa-n) 9=8. Accordingly, if it be asked What is a Fathom? (and so of any other) the answer may be mad the same way, in any of the prior denominations: e.g. 24 palms or 6 feet, or 4 cubits, or 2 yards, or 1½ pace, &c.

2. Any whole was called AS, and 1 twelfth of it Uncia [whence

our terms of ounces for weight, and inches for length]. The seve ral numbers of those unciæ (between 1 and 12)—were denom nated, in order, as follows in text: viz. Sextans (i.e. \(\frac{1}{6}\)) 2 Quadrar (1) 3, &c.—and express their manner of reckoning Interest money: thus usúræ asses [centesimæ] was 1 per month [12 property month, and so on to unciariæ, 1 twelfth per month, and so on to unciariæ, 1 twelfth per month [1 property e.g. 20d. per month, 20s. per year.

3. Of the three apartments distinguished by brackets, in the 1 are Brass- or Copper-; 2d, Silver-; 3d, Gold-coins.—N.B. (Sh-ok (as appears by the Abbreviatures explained underneath, at by the key above) signifies Skilling 48: i.e. a shilling is 48 fa things; and so of the rest. (2) y (the memorial letter) may pronounced nee or wi, to distinguish it from i; e.g. Cr-efy, as

4. i. e. in the year (Urbis C-ondita) from the building of t city of Rome, 190-C-fouz; i e. U.C. 490, when the Punic w had exhausted the treasury it weighed but 2, and so of the rest. 5. i. e. the Æginean mina was (ubss) 5656 q: (g) 100 of which

nade the Æginean talent. And so of the rest.

6. N.B. In these lists, those in Italic are moneys of account; he rest, coins. The Figures and Marks refer to the correspondng memorial verses.

(c) N. B. There are also Coined Half-guineas, Seven-shilling pieces, Half-crowns, Threepences, Twopences, Halfpence, and such

s are distinguished by a superior c.

MEASURES.

CUBIC MEASURES REDUCED TO PINTS.

1 Quar-d. *Gal-k. R-afo. Bar-eld. Ti-(WINE) tts. H-uzf. P-aŭpë. B-athei. T-ethbau. Firk-boid, ásf. Kil-äbek, baff (BEER & ALE). Bar-bdeik, adus. Hog-alad, bups. Pe-bs. Bŭ-so. Str-aek. Coom-dus (DRY). Se-ŭbë. Ch-etzo. We-ithpe. Lä-lady. (liq.) C-, urei. L-irò. Căb-i. H-az (H). Seăh-dy. Bath-sy. Hom-auzu (-uid). Cab-, durau. Gom-, ŭraz. Se-boi (DRY). Bă-lă. Le-dlaŭ. Homer-lat. Coch-, rădy. Ch-rauz. Myst, rok (G). Conch-, raf. Oxybă-,reĭ. Metr-eis. Coch-, rădy. Choen-bre. Mědim-pě (DRY). Cy-Ox-Cŏty-Xest-as the Roman.

Quart-,rö. Sĕ-a,rl. Cö-p. Ur-ek-rä (R). Quă-dr-up. Cülĕ-bafp. Lĭ. Cÿ. Ace. Hem. Lig-,rok. Cy-,rad. Acet-,reĭ. Hĕm-(DRY) in,rĕ.

Sĕ-a,rŭ. †Mod-as,re.
*GALLON contains inches (dry) doid,rö: (beĕr)

- $k\ddot{e}$: (wine) eta^3 .

1 TPe TTLE Quarts (dr-) i (liquid)-e — † Modi-Pints (liquid)-an (dry)-bau,ro.

Abbreviatures explained.

Acetabulum (lin.) 9, 8. Barrel, 1. Bath 4. Bushel, 3. Butt, 1. Cab, 4. Caph, 4. Cheme, 6.

Chaudron, 3. Chœnix, 7. Cochlearion, 6. Concha, 6. Congius, 8. Coomb, 3. Culeus, 8. Cyathus, 9. Firkin, 2. Gallon, 1. Gomer, 5. Hemina, 9. Hin, 4. Homer, 4, 5. Hogshead, 1, 2. Kilderkin, 2. Last, 3. Letech, 5. Ligula, 9, 8. Log, 4. Medimnus, 7. Metrétes, 6. Modius, 9, 11. Mystron, 6. Oxybaphon, 7. Peck, 3. Pottle, 11. Puncheon, 1. Quadrantal, 8. Quart, 1. Rundlet, 1. Seah, 4, 5. Seam, 3. Sextarius, 8, 9. Strike, 3. Tierce, 1. Tun, 1. Urna, 8. Wey, 3.

Synonyms and Equivalents.

Amphora, quadrantal. Amphoreus, metrétes. Cadus, metrétes. Carnock, coomb. Chos, congius Coron, homer. Cotyle, hemina. Ephah, bath. Lingula, ligula. Omer, homer. Oxybaphon, acetabulum Pipe, butt. Quarter, seam. Quartarius, \(\frac{1}{4}\) sextarius Semimodius, \(\frac{1}{2}\) modius. Xestes, sextarius.

1. i.e. A Firkin (1) of Beer=72 pints; (2) of Ale=64 pints and so of the rest.

2. By act of parliament, in 1697, the gallon contains only 268

inches

3. By experiment, made in 1688, it was found to contain onl 224 inches.

LONG MEASURES REDUCED TO INCHES.

Nail-d,ro. Pal-t. Hăn-ŏ. Spa-n. Foot-ac Cŭbĭ-bei. E (f l) ĕp (eng) ol. Y-is. Pa-sÿ. Fáth-pe. Ro-bouk. Furl-oindi Mĭ-sitsy. Le-miles 3. H. Pal-f. Sp-ad. C-ef. F-ous. Ez-bŏf. Ar-an

Schoen-andy. Stä-naug. M-ousth.

G. Dor-f. Lych-az. Orth-ab. Sp-ad. Pygm-a.

Py-dz. O-nau. St-naug. M-oiskyz.

5 R. Unc-ă,ri. Pal-f. Pe-bs. Palm-dy. Cŭo-e Gră-ky. Pass-ky. Stă-byth.

PROPORTIONS.

6 { Line-be. Băr-i. DIGIT, INCH (Heb. Gk. Rom., nad: ,pulŏ: peldu¹. [M²-eizth.
FOOT--Eng-ath.—Grĕk-äzyp.—³Rom (coss) naup
(st) oupĕ (vĕs) oukau.

Abbreviatures explained.

Arabian pole, 3. Barley-corn, 6. Cubit=pygme, pygon, pechus 1, 3, 5. Digit, 6. Doron=palm, 4. Ell (flemish, english), 1. Ezekiel's reed, 3. Fathom, 2, 3. Foot=pous=pes, 1, 5, 7. Furlong=stadium, 2, 3, 4, 5. Gradus, 5. Hand, 1. League, 2. Lichas, 4. Line, 6. Mile = milion = miliáre, 2, &c. Nail, 1. Orguia, 4. Orthodóron, 4. Pace=passus, 2, 5. Palm=doron, 1, 3, 5. Palmipes, 5. Passus= pace, 5. Pes=foot, 5. Pygme, 4. Pygon, 4. Rod, 2. Scheenus, 3. Span=spithame, 1, 3, 4. Spithame =span, 4. Stadium=furlong, 4, 5. Uncia, 5. Yard, 2

Synonyms and Equivalents.

Ammah, cubit. Aulos, furlong. Chebal, schænus. Cubit (lesser) pygme, (greater) pechys. Dactylodochme, doron. Diaulos, 2 stadia. Dochme, doron. Gomed, span. Kaneh, Ezekiel's reed. Measuring-rod, scheenus. Mili-are,-on, mile. Palæste, doron. Pathil, scheenus. Pechys, cubit. Perch, rod. Pole, rod. Pollex, uncia. Pous, pes. Tophach, palm. Ulna, cubitus. Zereth, span.

2. N.B. A Sabbath-day's journey is reckoned to be 730 paces,

^{1.} N.B. The Digit is sometimes divided into 4 grains; the Line into 6 points.

⁶ of which made the Parasang, 48 a day's journey.
3. i.e. The proportion of the Roman foot to the English (divided into 1000 parts) is here expressed as found-on the monument of Cossutius—on that of Statilius—on a congius of Vespasian.

SQUARE MEASURES REDUCED TO SQUARE FEET

(E. Yar-n. Pace-du. Pole-epe, ro. Rood-azkouz. Acre-otusy.

G. Plethron — azasf. Arouva, the half: but Egyptian—itdaun.

R. Juger-esouty. Cli-tisaŭ. Vĕ-nily. (mĭn) A-fŏkeĭ (qu) atfauz.

Abbreviatures explained.

Actus minimus, quadratus, 3. Clima, 3. Jugerum, 3. Versus, 3. Yard, 1.

MULTIPLICATION TABLE.

from 7
$$\begin{cases} \begin{cases} P\text{-oi}, on. & P\text{-ei}, us. & P\text{-ou}, si. & K\text{-ei}, so, \\ K\text{-ou}, pe. & N\text{-ŏu}, eia. \\ \end{cases} \end{cases} \begin{cases} F\text{-ad}, fei. & L\text{-ad}, sy. & S\text{-ăd}, oid. & P\text{-ad}, ko. \end{cases} \begin{cases} 7 \times 7 \\ \text{K-ad}, ouău. & N\text{-ad}, azei. \end{cases}$$

NUMERICAL LETTERS.

(In Numerals] A less number, afore, Abates; A less number, afore, Abates';
after, Encreases.²
I-b. V-u. X-az. L-uz. C-azy. D-uyz.
M (כוס³) ath: hence (ככוסס) byth.

א-b. י-az. p-ag⁴—וס-bu⁵—from-ug by און די נס
ouzy 6 [כככוסס

-ath by the Units: but oftener by אלא, prefixing
the numbers 8 [azyth. $\begin{cases} a-b. & i-az. & \rho-ag.^4 & \sigma\tau-au. & (v_i) & \text{koppă-nÿ} & (\tau\alpha_i) \\ & \text{sanpi-ouÿz.}^9 & \acute{a} & (\alpha_i \alpha_i) - azyz. \\ I-b. & \Pi-\breve{u}. & \Delta-\breve{a}z. & H-ag. & X-ath. & M-azth. & \Pi multiples others inscribed in it. 10 \end{cases}$

1. e.g. IV. 4, IX. 9, XL. 40, XC. 90. 2. e. g. — VI. 6, XIV. 14, XIX. 19, XXIX. 29. — vi 11, 2 12: κρ 101, τρ 102—ια 11, ρα 101, &c. 3. Formed, in current writing, from M; part whereof, united,

(viz. 10) became D. 500; hence 100 5000, 1000 50000.

4. i.e. Units, tens, hundreds, begin from the letters here specified; and are to be reckoned on, in order, from them: e.g. al, B 2, γ 3, &c. ι 10, κ 20, λ 30, &c. ρ 100, σ 200, &c. 5. Instead of η , being the ineffable name of Jehovah.

6. e.g. 7 500, ב 600, 7 700, &c.
7. Before the letters expressive of hundreds; as, ארלר 1534: very seldom otherwise ; אנ 1070. 8. e. g. אלפיים 2000, נאלפים 3000, לאלפים 30000, &c.

9. The various figures and names of these numeral characters, see in my Table of Greek characters.

10. e.g. \triangle (10) inscribed in Π (5) is \triangle (50).

PRACTICE

1. If one? the sought into Price, or its factors; or by Aliquot parts, and, by the Aliquots of Fractions of Sought (if any) divide Price.5

2. What'll one?6 the Price by Commodity; but, if too

large, by its factors.8

1. i.e. In questions where the conditional term is 1: as, when we say, "If one cost so much, what will so much cost?"

2. i. e. Multiply the question-term, or thing sought, into the price, &c.—e.g. If one cost 10s. what will 20 cost? &c. Answ.

20 (the thing sought) \times 10 (the price)=200s. i.e. 10l.

3. viz. when more commodious.—e.g. If one cost 12s. 6d. what will 14? Answ. The factors of 14 being 2×7 ; say $2 \times 12s$. 6d = 25s: then $7 \times 25s = 175s$. i. e. $8l \cdot 15s = N$. B. If the multiplicator be not resolvable into factors, take those that come nearest it, and add the price for the odd one, or multiply it by what the factors want of the multiplicator.

4. Divide it by the Even parts of the denomination, in which you would have the answer .- e. g. If one cost 12s. 6d., what will

14? Answ. 10s. being the $\frac{1}{2}$ of 1l. and 2s. 6d. (which makes up the 12s. 6d.) the $\frac{1}{4}$ of 10s.; say 2 in 14=7l.; then 4 in 7 (the quotient of 14 by 2)=1: and there remains 3l., which, in the next inferior denomination (viz. shillings) is 60, then 4 in 60=15s.

Thus 14.....14 pds. pks. &c.

5. As in the following example

84 cwt. 3 qr. 11 lb. at 11. ls. 10d.

In all 1852s. 6d. the answer: which, being halved, gives

921. 12s. 6d. the price of 84 cwt. 3 gr. 11 lb.

6. i. e. In sums, wherein the Question-term is 1; as when we say,

"If so much cost so much, What'll one cost?"
7. e.g. If 12 cost 10s. 6d. what will 1? Answer, 12 in 10s. 6d. I cannot have; but 12 in 10×12 (to reduce it to pence)=120+6 =126: then 12 in 126=10d. and 6 remains; which multiplied into 4 (to reduce it to farthings) is 24: then 12 in 24=2 q.

Thus in
$$10 \frac{6}{12}$$
 $0 10\frac{1}{2}$

or, by the factors of 12, viz. 2×6 , or 3×4 ; as in the following:

8. The foregoing example will stand thus:

So the answer is found more easily than by dividing by 12; muca more so will it be, when that number is higher.

RULE OF THREE.

ALL QUESTIONS IN IT ANSWERED (1) BY ONE STATING (2) THE SAME WAY.

- (1) CONDITIONAL in one line: and, opposite, the terms CORRESPONDING.
- (2) -DEND is the -Ducing of one into -Duc'd of the other: the Rest-Sor.1
- N.B. No -Duc'd: the facit of one line divide by that of the other.
- 1. i.e. The producing terms of one line multiplied into the produc'd of the other, give the divident; and the rest of the terms multiplied together, give the divident; the quotient falls to the blank.—(a) Producing terms are such as jointly produce any effect; e.g. whatever is considered as a cause, with the adjuncts of time, distance, measure, &c.—(b) Producing terms are such as are connected with the others under the character of price, purchase, produce, gain, loss, interest, advantage, value or quantity of work, &c.—(c) e.g. At the rate of 6 per cent. per ann. what is the interest of 200l. for 18 months? Answ. The terms being stated, as they offer (without any other regard than Which are conditional, and Which imply the question); Thus:

Interest:	Principal.	Time.
6l.	1001.	12m.
	200	18

or in any other order agreeable to the directions in the rule, say is (the produced term of one line \times 18 \times 200 (the producing terms of the other) = 21600 (for the dividend; and (the rest) 100 \times 12 = 1200 (for the divisor). Then 21600 ÷ 1200=18, the answer; iz. 181.

2. i.e. If there be no produc'd term (as generally happens in he single rule of three inverse) divide the facit, &c.—e.g. low much stuff, yard-broad, will line 10 yards of cloth, yard-and-uarter broad? The terms being stated thus:

broad long say
$$5 \times 10=57$$
 and $50 \div 4=12\frac{2}{7}$ i.e. 12 yards and $\frac{2}{7}$ or $\frac{1}{7}$.

SUBTRACTION

May be more commodiously performed by Addition, as in the next article.

TABULATING.

TO MULTIPLY AND DIVIDE BY ADDITION ONLY.

1. Twice-double-Multiplicand facits very multiplicator. † gives the f. of.

2. Tabulate Divisor: Quote next digit-under: Subtract by Addition.

1. In the MULTIPLICATION-sum (I.) the Multipli-cand cator facits of the multiplicand twice doubled, are, as they stand against the digits 2 and 4. Then, To multiply the multiplicand— 1 98765 2 197530 395060 into 8 (the last figure of the multiplicator) double the facit of the digit 4—into 6 3 (the 2d figure, &c.) add the facit of 4 to that of 2 (=6)—into 7 (the next figure, 790120 8 592590 6 691355 &c.) add together the facits of 1, 2, 4 (=7)(II.)placing each of them as in the common method of multiplication $75851520 \div 768$ method of multiplication. 673794 1536 2 In the Division sum (II.) (1) Tabu-late the divisor, as in the example, viz. 5898 3 2304 43 3072 4 against the digit 2, by adding the divisor Quotient (III.) 3840 to itself; against 3, by adding together 98765 ÷ 968 the totals of 2 and 1; against 4, by adding 1929 1936 4608 5376 the total of 2 to itself, or that of 3 to that Quotient 102 6144 6912

of 1; and, in like manner, in the rest, by 6912 9 adding together the totals of any two or more digits, equal to the digit whose total is sought. Then, (2) Quote (or, for the quotient, take) the digit against the total next less, or under the first corresponding figures of the dividend, viz. 7585. Then, instead of subtracting, according to the common method, the facit of the divisor by 9 (viz. 6912) from (7585) the corresponding figures of the dividend (3) Subtract by addition, and say [not, 2 from 5, and there remains 3; but] 2, and (so much as will make 5, viz.) 3 is

LOWES MNEMONICS.

5: then 1, and (as much as will make S, viz.) 7 is 8: then 9, and [what will make 15 (since 9 cannot be taken from 5) viz.] 6 is 15^a; then, 1, that I borrow, and 6 is 7; and so on.——In the Division-sum (III.) it appears that——All the tabulating necessary to find the quotient, is only to double the divisor: for, the total next less than (the 1st dividend) 987, is 968: therefore quote 1: then (the 2d dividend) 196 has no total less; therefore quote 0: then the next total less than (the 3d dividend) 1965, is (the 2d total, viz,) 1936; therefore quote 2.———And, in like manner, may be tabulated any sum, by steps, as there shall be occasion.

(a) N.B. 15, being the last sound in the mouth of the operator, does more readily and certainly remind him of what he borrowed, than in the common way of subtraction; which is no small advantage to this method.

WEIGHTS.

TROY WEIGHT, FOR GOLD, SILVER, JEWELS, GRAINS, AND LIQUORS.

MONYERS REDUCED TO BLANKS.

1 Mon. Perit-ef. Droit-oky. Mite-abth-udy. Grain-dizozy.

GOLDSMITHS AND APOTHECARIES WEIGHT REDUCED TO GRAINS.

2 (Gold.) Căr-ö. Pen-dö. (Pö.) Scrup-dy. Drămauz. Ounce-oky. Pŏ-loisy.

AVOIRDUPOIS WEIGHT, FOR BASER-METALS, BREAD, MERCERY, GROCERY, &c.

WOOL REDUCED TO POUNDS.

3 Clove-oi. Stone-bö. Töd-ek. Weigh-beid. Sacktauf. Last-fisei.

OTHER THINGS.

4 Pound-ounce-as. Hun-pounds-abe. Hun-Fother-anare: Tun-ez.

HEBREW WEIGHTS, REDUCED TO GRAINS.

5 Zuza-lf. Bek-azei. Shek-ebei.2 Man-ebeizy. Talamnyth.

GREEK AND ROMAN WEIGHTS.

6	{ Lens-, kŭrăbe. Lept-aurek. Chalch-ă, rĕ. Sil- } t, rĕk. Ob-ou-trek.	6
7	Script-ak,traf. Dra-lf,ouraf. — Sext-oid,aurp. Sicil-azn.erp.	7
8	Duell-bol, uroi. — Unc-fip, roi. — Libra-	8

PROPORTIONS.

9 GRAINS English-bif, re make French-alei, Dutchapou.

10 Ounce has grains Avoir-ofei, Troy-fouz: as eig

to oii.4

1 Pound Avoir-heavier than Troy by 2 ounces 4 drams, and 2 scruples.

Abbreviatures explained.

Bekah, 5. Carat, 2. Chalcos, 6. Drachma, 7. Duella, 8. Hundred-weight, 4. Lepton, 6. Maneh, 5. Obolus, 6. Penny-weight, 2. Pound, 2. Scriptulum, 7. Scruple, 2. Sextula, 7. Shekel, 5. Sicilicus, 7. Siliqua, 6. Talent, 5. Uncia, 8. Zuzah. 5.

Synonyms.

Gramma, scruple. Keration, siliqua. Lens, grain. Litra, libra. Quintal, hundred-weight. Sitarion, grain.

1. N.B. The Grains used in weighing Diamonds, are somewhat

lighter than those used in gold, &c.
2. i.e. 218, according to Bishop Cumberland: 268, according to father Mersenne.

3. So that the avoirdupois-ounce is less by 42 grains than the troy-ounce; which amounts to near a 12th part of the whole.

4. i. e. 73 ounces-troy make 80 ounces avoirdupois

ASTRONOMY.

MARCH,

THE FIRST DAY, TO FIND ON WHAT DAY OF THE WEEK IT HAPPENS.

1. The year, more 2 and even-4th, divide by 7:

2. By what remains (for 0 sat. 1 sund. and-so-on) it is given.

E.G. An. Dom. 26+2+6 (its even 4th)=34÷7, remains 6; i.e. Friday; accounting Saturday 0, Sunday 1, Monday 2, &c.—Before Christ, reckon backward; viz. Sunday 1, Saturday 2, and so on to Monday 0. e.g. Bef. Ch. 7+2+1 (its even 4th)=10+7, remains 3, i.e. Friday.—Of the other months to find the 1st day, and consequently what day of the week any day is; V. Signs.

MONTHS,

THE NUMBER OF DAYS IN EACH, WITH THE DAYS OF THE NONES AND IDES.

Ap Sĕ Nö June-iz; Mar-Mă Jül Oc, No-p, ID-al; in the rest, l..at.

1. February, it is well known, has 28 (in the leap years 29), the est 31.

2. i.e. The Nones are on the 7th day, the Ides on the 15th, in

hese 4 months.

3. i. e. The Nones are on the 5th, the Ides on the 13th, in the est.

MOON.

CYCLE AND EPACT.

Golden's remainder of year-more-1, divided by 19.1 Epact's the cycle into ab: above iz by iz, the remainder.

CHANGE AND AGE.

New's the remainder of month-from-march and epact less iz, auz.3

Ap. Se. No. Jun. less en—For Jan. Mar. o. Feb Apri. 1 add.

Full's 15 days from the change—Waning, east; Growing west is enlightened.

RISING AND SETTING.

At Sun-set, sets New, rises Full; and, each day, minute ub more.

Shining (in Waning) Subtract (in Encreasing) Add to Sun-rise,-set.

SOUTHING AND TIDES.

Southing's the age into ok by 60: from al, the excess

High-water at London-bridge: Two hours and a hal after Southing.6

1. e.g. 1737 + 1 = 1738 + 19 = 19: remainder 9, for the cycle, o Golden Number.

2. e. g. 9 (the cycle) \times 11 = 99 \div 30 (as being above 30)=9 remainder 9 for the epact.

3. e.g. May 20 (1737) What is the moon's age? Answ. 3 (the number of the month from March, inclusively) + 9 (the epact =12-10=18: the day of the new moon, when it is said to change So the moon, on the 20th of May, is 2 days old.

4. i. e. The Horns are turned, in Decreasing (from the Full Westward; in Encreasing (from the New) Eastward.
5. e.g. April 15 (1737) When comes the moon to the meridian Answ. The moon's age is 26: the excess above (al) 15, is 11

Then $11 \times 48 = 528 + 60 = 8$ h. 48 m. for the Southing.—For the readier working, the rule may be thus expressed: "Age into 4, by 5: into 12 the remainder gives minutes." e.g. $11 \times 4 = 44 \div 5 = 8$ h. remainder $4 \times 12 = 48$.

6. e.g. Apr. 15 (1737) the moon Souths at 8 h. 48'. Then 8 h. 48' + 2 h. 30' = 11 h. 18'. (N. B.) If the total amounts to more than

12, the excess shows the hour.

THE TWELVE SIGNS

Or portions of the Zodiac, named from Constellations once in them; their names, characters, and corresponding months; with a Key to find the Sun's place on any day; and on what day of the week the first day of any month happens.

1	Ar	ma	n^1	a^{2}	m	Aries
2	Taur	apr	ou	f		Taurus
3	Gĕmĭ	may	\boldsymbol{k}	S	п	Gemini
4	Cance	jún	- 4	e		Cancer
5	Lĕ	jŭl	\boldsymbol{p}	f		Leo
6	V	au	\boldsymbol{p}	p brace		Virgo
7	Líb	se	p	ž	<u>~</u>	Libra
8	Sc	ос	S			Scorpio
9	Să	no	p	ă	#	Sagittarius
10	Că	de	k	t	119	Capricornus
11	Aquă	ja	\boldsymbol{n}	S	****	Aquarius
	Pĭscĕ	feb	ba	d	\varkappa	Pisces

1. The method is this: To the day of the month (+11 for the old style) add the number signified by the numerals n, ou, &c. the Sun (-30, if above 30) is in the degree of the sign corresponding to the day of the month. e.g. Feb. 10+11 (for the old style) +11 (for the numeral ba)=32-30=2° of \times .

2. Thus: From the day on which March 1st happens (V. March) for any other month, count forward so many days as are signified by the numerals a, f, &c. e. g. Mar. 1st, 1737, was Tuesday: therefore Apr. 1st [counting (f) 4 onwards, Tuesday being one] is

Friday: and, consequently, the 8th, 15th, 22d, 29th, are Fridays whence may be known the rest. [N.B. Jan. and Feb. are reckoned from Mar. of the preceding year.]

SUN.

THE TIME OF ITS RISING EACH DAY.

8 Jăn-o.¹ 7 Febr-ei. 6 Mar-by. 5 Apr-ou. 4 M-us.† 4 Júl-p. 5 Aug-at. 6 Sept-ad. 7 O. be. 8 Na-l.† †Jun-da, the Longest, i fi.²—— the Shortest, ei boi, Decem-da.↓

FOR THE INTERMEDIATE DAYS.

Sought, into 60, by All, gives Min. fewer 1st line, more 2d.

THE TIME OF ITS SETTING EACH MONTH, &c.

Setting's the complement of rising to 12; and, doubled, the day gives.

CYCLE AND DOMINICAL LETTER.

Cycle's the remainder of year-more-9 by ek: if 0, ek. ek cycle's A; ep, B; and so on; e'ery 4th has 2 (next after these 3ds; d E, au G, a-y B, bo D, aei F, de A, dau C) and

FORMER is used till Feb-do, in Leap-years; and, after,

the LATTER.

TO FIND THE SUN'S PLACE IN THE ZODIAC, V. SIGNS.

1. i. e. On Jan. 4, the Sun rises at 8.

2. i. e. On Jun. 21, New style (which is the Longest day) the

Sun rises at 3 h. 43'.

3. i.e. The day sought (reckoned from the day of the Sun's rising) multiplied into 60, and divided by the number of All the days between the day of the Sun's rising (specified) in any month, and the day of its rising in the next. gives the Minutes fewer (or,

to be subtracted from the hour specified) in the 1st line; more (or, to be added) in the 2d line.—e.g. Apr. 13, I would know when the Sun rises. By 5 Apr-ou I find that the day sought (reckoned from the day of the Sun's rising, viz. the 9th) is 4 [for 9+4=13.] Then $4 \times 60=240$: and $240 \div 36$ (the number of All the days from 5 Apr-ou to 4 M-as: i.e. from 9, the day the Sun rises at 5 in April; to 16, the day the sun rises at 4 in May)=6' [and $\frac{24}{36}$ i.e. by reduction] 40''-5 h. (the day it rises on the 9th of April)= $4 \cdot 53'$, 20'', then, therefore, the Sun rises on that day, viz. Apr. 13.

4. Thus, Dec. 21, New style, the Sun rises at 8 h. 17': the complement of its rising to 13 is 3 h. 43' [for 8 h. 17'—12 h.=3 h. 43'.] The Sun, therefore, sets at 3 h. 43': and this, doubled, gives the length of the day, viz. 7 h. 26': shorter by 9 h. 8' than the longest; which (by the same calculation) will be found to be 16 h. 34'.

5. e.g. $1737 \times 9 = 1746 \div 28 = 62$ (the number of revolutions since

Christ) remainder 10, for the number of the cycle.

6. i.e. If there be no remainder, it will be (ek) the 28th, or last

year of the cycle.

7. i.e. The dominical letter answering to the year of the cycle 28 is A; to 27, B; and so on (backwards) to G, the 7th and last:

after which returns A, B, &c.

8. e.g. Every 4th (or Leap year*) has 2 dominical letters: the latter of which is used after Feb. 24, the intercalary day; which is therefore denoted by the same letter as the 23d.—N.B. For the readier finding the dominical letter answering to any number of the cycle, I have given (in parenthesis) those of every third: thus (aei F) F answering to 18 (one of the 3ds there specified), 17 (the lext 4th, reckoning backwards) will be GA; 16, B; 15, C; &c.

For the readier finding Leap-year, the rule is this: "Year-sought divide by 4; what's left will be, for leap-year, 0; for past, 1, 2, or 3." e.g. 1737-4=434: remainder 1, for 1st after leap-year

CHRONOLOGY.

ROMAN MANNER OF DATING.

(1) Kal. Non. Id. (2) Pridie. (3) Tert. quart: (nb The day sought subtract from One more than Ide-None-days; Two more than the months, for the Kalends.

I. (i.e.) For the days on which the Kalends, Nones, Ides of an month happen (V. Months) write (e.g.) Kal. Dec. on the kalend of December, viz. the 1st day of December. (2) On the day preceding each of them, write (e.g.) Pridie Kal. Dec. i.e. pridie kalendas decembris, on the day before the kalends of December, viz the 30th of November. (3) For the days backward, write Tertic

Quarto, &c. i.e. on the 3d, 4th, &c.

II. To find any of the days, e. g.—(1) 10th of December What, in the Roman style? Answ. 10—14 (One more than the day the ides happen on=4. i. e. 4to id. Dec. Again (2) 4to id. Dec. What, in the English style? Answ. 4—14=10 i. e. the 10th of December.—(1) 20th of November: Say 20—32 (Two more that the number of the days in the month)=12 i. e. 12mo. kal. Dec. (2) 12mo. kal. Dec. say 12—32=20.

EPOCHAS.

THEIR COMMENCEMENT IN THE JULIAN PERIOD

		H AA	LILI		0311	NI ELI	NOL	MI E	TA E	114	T I	lEi e	101	1424	N	To IV I	LO.
,	9717	Tróy to	Spanish o	Sel	Rom in		C	Nábon i	Juli o	ë		Exod ic	Dioclesi o			Báb d	Agon.capit. opnou
2	utof	tute	ospau	ofyt	insa	ótni	inik	inaup	ospa	uzel	util	idáp	onnoi	efan	obkí	doke	nond
	5344	3532	4676	4403	3971	4393	3938	3967	4671	5025	5335	3217	4997	2419	4183	2482	4/99
	5344 Yezdegirdic	Troy taken	Spanish	Contracts	Rome built	Philippic	Olympic	of Nabonassar	of Julius	Indictions	Hegira	Exodus	Dioclesian	Deluge	of Cyrus	Babylonian	Capitoline
	death of Yezdegird	taking of the city of	defeat of the Spania	reign of Seleucus Kir	building of the city	succession of Philip	institution of the Ola	reign of Nabonassar	reformation of the ca	institution of the Inc	Flight of Mahomet	Going of the Israelit	persecution under D	Noah's universal De	end of the captivity	beginning of the Ass	institution of the Ca

764 of the V 4714 of Chris 4683 Actian 1799 Canitalina of Christ defeat of Anthony at Actium. birth of Jesus Christ (A. D.) tion of the Capitoline games. Peluge. Dioclesian. yrian monarchy under Cyrus.

tes out of Egy

to Mecca.

CHRIST born A. M. Jyzo. Jew-tpaud. Greek, ecc-lonf: civil-ulzou.

king of Persia.

rds by Calvinus

of Rome (U.C.) g of Syria, &c.

mpic games. to Alex. the Great.

lendar under J. Casar.

king of Babylon.

TO FIND

- 1 { The year of the Julian period corresponding to any year in any Era.
- 2 { Any year of any Era by the corresponding year of the Julian period.
- 1) { Jul for After add Comm-less-1 for Aford take from Comm.
- 2) { ER—After, Comm-less-1 take for Corr—bu Afore, Corr. from Comm.

1. What year of the Julian Period is the year 1737 (1) before Christ? (2) after Christ?—Answ. (1) 1737 (before Christ—4714 (the year of the commencement of the Christian era in the Julian period) = 2977. (2) 1737 (after Christ) +4713 (the commencement-less-1)=6450, the year of the Julian period.

2. What year of the Christian Era is the year of the Julia: period (1) 2977? (2) 6450?——Answ. (1) 2977 (the year of the Julian period corresponding to the year of the era sought—4714 (the commencement of the Christian era)=1737. (2) 6450 (the corresponding year)—4713 (the commencement-less-1)=1737

^{*}FOR THE NUMBER OF YEARS FROM THE CREATION TO THE BIRTH OF CHRIST.

The Christian vulgar era commences in the yea of the world 4004, Jan. 1. [according to Helvicus, Isaac son, &c. 3948.]—The Jews place the creation of th world, Later by 242 years, viz. in 3762, Oct. 7.—The Greek historians, on the authority of the septuagint Sooner by about 1490, or 1500 years, viz. the ecclesias tical, in 5494; the civil, in 5509.

FESTIVALS, HOLY-DAYS, FEASTS, &c.

IMMOVABLE.

CHRIST.

Nát-de, du. 1 Círc-ja, b. Epiph-ja, s. Lámm-au, b. HoRood-se, bo. Transf-au, s.

MARY.

Ann-măr, el. Púr-feb, e. Nat-se, k. Vís-jul, e. Cóncde,k. Ass-au,al.

SAINTS.

All-nov, a. And-nov, iz. Bap-jun, ef. Bárnaby-jun, ab. Barth-aug, ef. George-apr, et. James-jul, du. Innocentdec, dei.

John-dec, doi. Luke-o, ak. Mark-ápri, du. Mártinovemb, ad.

Mátt-se, da. Paul-jan, du. Pet-jun, dou. Phíl Jacomay,a.

Sim Jud-o, ék. Ste-de, dau. Tho-dec, da. Válentinefeb, af.

ROYAL FAMILY, 1737.

Cór-o,ba. Prócla-jun,ab. Born, King-o,ty: seit. Queen-mar,a: seid.

Wáles-ja,ty: pyp. -cess-n,ak. AnOr-o,de: pÿn. Ame-ma,iz: pab.

Car-ma,iz. pát. Will-apr,al: peb. Már-fe,de: pet. Loui-d,p: pef.

TERMS, AS IN 1737.

Terms hold weeks al: dáys Hilar-eb. East-ép. Trindy, Mich-tau.

HIL from ján-di to feb-be. — MICH from óc-do to nov-ek.

East, wed-e after, begins: ends, after ascension, mond-a. TRIN, friday áfter, begins; and ends 3d wédnesday after.

Vac. holds weeks toi: dáys Hilar-oit. East-ap. Tr-abs. Mich-us.

QUARTERLY.

Lády-mar, el. Midsum-jun, ef. Mich-sep, dou. Chridec, al.

STATE HOLIDAYS.

Fíre-sep,e. Powd-no,l. Márt-ja,ty. Réstor-may,dóu. Revo-feb,at.

MOVABLE.

1BEFORE AND AFTER EASTER.2

1 { Sept-st. Sex-us. Shrove-ón. Qua-fe. Lent-os. Pál-p. Maund-i. Good Fri-d.

EASTER's the first Sunday after first Full-moon after March-da.

2 \ \ \text{Low-oi.}^2 \ \text{R\'oga-tu.} \ \text{Asc-in.} \ \ \text{Whits-on.} \ \ \text{Tr'in-lau.} \ \text{Ad-eta.}

EMBER-days. We Fri Sát, after Quá Whit Ho Róod Luci-dec, at.

EASTER TABLE.

PASCHAL-PULL-MOONS FOR THE GOLDEN NUMBERS, WITH THE HEBDOMADAL LETTERS.

d	be	A	14	e	iz	M	7	d	l	A	1
g	a	A	15	c	bei	\mathbf{A}	8	\mathbf{g}	el	M.	2
C	ea	M	16	f	oı	\mathbf{A}	9		bi	A	3
a		A	17	b	eoi	M	10	a	e	A	4
d				_		\mathbf{A}	11	d	ed	M	5
b						\mathbf{A}	12	b	by	A	6
				f	<i>J</i>				•		
	n -eou -boi	A M	17 18 19	b g	eoi bu f eo	M A A	10	a d b	e	A M	4 5

USE OF THE TABLE.

Súm from Hebdóm to Domín (of the year sought) add to the Month's day.

Synonyms, &c.

Ash-wednesday, 1st day of lent. Candlemas, purification of the virgin M. Crucifixion, good-friday. Holythursday, maundy. Holy-week, last of lent. John the

Baptist, midsummer. Parasceue, good-friday. Passionveek, last of lent. Pentecost, whitsuntide, whitsontide. Processioning - day, ascension - day. Quinquagesima, hrove-sunday. Shor-(Shur-)thursday, maundy-thurslay. Twelfth-day, epiphany.

1. i.e. The nativity of Christ is on Dec. 25, and so of the rest. 2. i.e. — Septuagesima-sunday is (st) 63 days before Easter 70 before the octave of Easter] --- Low-sunday is (oi) 7 days

fter Easter, and so of the rest.

3. The Easter-table consists of 5 verses, each ending at a period-nark; and may be read thus: "One-ald, two-melg, three-ăbi e. our-Aĕă, five-medd," &c.—Its Use is to find Easter-sunday for

ver. V. n. 4.

4. e.g. A.D. 1737, the golden number is 9, the dominical lette. 3., then, against 9 (in the table) the hebdomadal letter is F., from hence to the dominical B. are (g a b) 3; which added to apr. 7 the day of the month, in the table) gives apr. 10, for Easter-sunay.—So A. D. 1736, golden-number 8, 1st dominical letter C; hen from C (in the table) to C (dominic.) 7+apr. 18=apr. 25.

GEOGRAPHY.

In the following verses (which contain as much, I hink, as is necessary to charge the memory with by way f foundation) I have given the most general divisions of he several parts of the terraqueous globe; beginning, in ach, with the most northerly parts, and, in descending outhwards, proceed (to the right) from west to east: so hat children, with a few hints and occasional helps, may e able to find them, by themselves, and thereby fix them etter in their memory; after which they will easily get he verses by heart, and be well prepared to consult the azetteer, or to go through any system, with pleasure, to ood advantage.

LAND.

Continents, Isles, Peninsulas, Isthmus, Capes, Mountains.

CONTINENTS.

EUROPE, AFRICA, ASIA, AND AMERICA.

- AF (8) Bar (féz mor a tún tripo bárc) Bi (dar) Egi (ălex cair)
- Zaár (zu) Ne (tómb) Nubi 'dáng) Gui (ma whý b lo c áng) Ethi (mon caf)
- AM (23) Green Brit Wa La Cán Acad Eng Jer Pén Mary Virg Car Geor Kent. Flór (aug pens) Mex (guád me ta j
- chi guat hon ver)
- Firm (pa ca már venez ánd gra po cóm dari) Pé (quito lím charc)
- Am: Brăsı (sál seba vin) Chil (já) Para (guai tuc plat) Mag
- AS (5) Tar (a sib che thi) Turk (tu na curd sy di år) Pe (der isp gomb)
- Ind (mog ag beng: vis go bi mál: pe to sí co) Ch pek nank
- EUR (18) Nor-berg. Swede-stock. (Scot-ed'n. Ire dúblin. E-london.
- Dén-cop. Hol-amst. Fland-bruss. Ge-vién. Po-we Russ-peter: France-par,
- Switz-basil. Húng-presb. Port-lisb. Spáin-mad. Itál ro. Tu-constant.

AFRICA.

Barbary comprehends the kingdoms of Fez, Morocco Algiers, Tunis, Tripoli, Barca. Bildulgerid: Daara Egypt: (ch. cit.) Alexandria, Cairo. Zaara: (ch. prov. Zuenziga. Negroland: Tombute. Nubia: Dangola Guinea: Malaguette, Whydaw, Benin, Loango, Congo Angola. Ethiopia: Monemugi, Monomotapa, Caffraria

AMERICA.

Greenland, New - Britain, New - Wales, Labrado: Canada, Acadia or Nova Scotia, New-England, Ne Gersey, Pennsylvania, Maryland, Virginia, Carolina, Georgia, Kentucky. Florida: (ch. towns) St. Augustine, Pensacola. Mexico: (ch. prov.) Guadalajarra, Mechucan, Tabasco, Jucatan, Chiapa, Guatimála, Honduras, Perágua. Terra - Firma: Panama, Carthagéna, St. Iartha, Venezuela, Andalusia, Granada, Popayan, Pomana, Darien. Peru: Quito, Lima, Los-Charcos. mazonia. Brazil: (ch. cit.) St. Salvador, St. Sebastian, t. Vincent. Chili: St. Jago. Paraguay: (ch. prov.) ruaira, Tucuman, Rio-de-la-Plata. Terra-Magellanica.

ASIA.

Tartary: (ch. prov.) Astrachan, Siberia, Chenyang, hibet. Turkey: Turcomania, Natolia, Curdistan, yria including Palestine, Diarbec, Eyraco-Arabic. ersia: (ch. cit.) Derbent, Ispahan, Gombroon. India: h. prov.) empire of the Great Mogul (Agra, Bengal) isiapour, Golconda, Bisnagur, Malabar, Pegu, Tonin, Siam, Cochinchina. China: (ch. cit.) Pekin, ankin.

EUROPE.

Norway: (ch. cit.) Bergen. Sweden: Stockholm. otland: Edinburgh. Ireland: Dublin. England: ndon. Denmark: Copenhagen. Holland: Amsterm. Flanders: Brussels. Germany: Vienna. Poland: arsaw. Russia: Petersburgh. France: Paris. itzerland: Basil. Hungary: Presburg. Portugal: bon. Spain: Madrid. Italy: Rome. Turkey: nstantinople.

CAPES, ISLANDS, PENINSULAS, AND MOUNTAINS.

PES: La Li St-éng. Fi Vi-spáin. Bla Ve Góodafri. Cóm-malab. Horn-fueg. ISLES: Zĕ-den. Az-pŏ. Să Sic Ca Cy-méd. Ma Ca bárb. He-gui. Mad-eth.

Mald Ceyl Súm Bo Su Jáv Phi Mo Ladr-ind. Newf-le

So-south-seas.

Bér-flo. Ba Cú Jam Hi Ríc, Carib (ánt ne mo bart mex. Fueg-mag.

PEN: Ju-de. Mó-gre. Pre-tart. Afri. Cámb. Mala

ind. Mex-amer-north.

MOUNT: Chevi-scot. Pyr-spain. Alps-it. Cauc tárt. Apalach-n-am.

CAPES.

Land's-end, Lizard, Start-point (of) England, Finister St. Vincent's, Spain. Blanco, Verd, Good-Hope, Afric Comorin, Malabar. Horn, Fuego.

ISLES.

Zealand (in) Denmark. Azores (west of) Portug Sardinia, Sicily, Candia, Cyprus (in the) Mediterrane Madeiras, Canaries (against) Barbary. St. Helé Guinea. Madagascar, Ethiopia. Maldives, Ceyl Sumatra, Borneo, Sunda, Java, Philippines, Moluce Ladrones, East-Indies. Newfoundland, Labrador. ciety-Isles (in the) South-Seas. Bermudas (again Florida. Bahamas, Cuba, Jamaica, Hispanióla, Pol Rico: Caribbees (Antigua, Nevis, Montserrat, Bar does) Mexico. Fuego, Terra-Magellanica.

PENINSULAS.

Jutland (in) Denmark. Morea, Greece. Pre-Tartary. Africa, Cambaya, Malacca, East-Inc Mexico, North-America.

MOUNTAINS.

Cheviot (between) Scotland and England. Pyren Spain and France. Alps, Italy and France. Cauc (in) Tartary. Apalachian, North-America.

WATER.

Oceans, Seas, Gulfs, Straits, Lakes, and Rivers.

CEANS: Hyp. Ethi. East. Alt-West. Paci-Southdel Zur. Ice.

EAS: Ba de-Swede. Chan-éng. Med-eu, áfr. Blackcu, as. Casp-tartar.
ULFS: Bo Fi-swéde. Ven-itál. Red-arab. Pers.

Béng. Baff Hu-north-am.

TRAITS: Sound-balt. Gi-med. Hél-bla. Ba-réd.

Sun-in. Húd-bu. Da-baff. Mag. AKES: Lad O-russ. Ne Lo-scot. Ge Lu-switz.

Baba-pérs. Bo-ne. Par-firm.
IV. Vŏ-că. Dan-bla. Rhi-ger. Rh Eb Níl-me.
T Eu-pers, Ga-be. Mis-mex.

OCEANS.

Hyperborean or northern. Ethiopian. Eastern tlantic or western. Pacific or south, or mare del ir. Icy near the south pole.

SEAS.

Baltic, east of Denmark and Sweden. Channel, th-east of England. Mediterranean, between Europe d Africa and part of Asia. Black sea, between part Europe and Asia. Caspian, in Great Tartary.

GULFS.

Of Bothnia and of Finland, in Sweden. Of Venice, st of Italy. Red-sea, between Arabia and Africa. ersian Gulf. Bay of Bengal, in Asia. Baffin's and idson's Bays, in North America.

STRAITS.

Sound (of the) Baltic. Gibraltar, Mediterranean. ellespont, Black-sea. Babelmandel, Red-sea. Sunda, lian-ocean. Hudson's, Button's-bay. Davis's, Baffin's-1. Magellan, South America.

LAKES.

Ladoga and Onega, western part of Russia. Loc Ness and Lomond (in) Scotland. Lakes of Gene and Lucern, Switzerland. Babacombar, Persia. Bonou, Negroland. Parime, Terra Firma.

RIVERS.

Volga (falls into the) Caspian-sca. Danube, Black sca. Rhine, German-occan. Rhone, Ebro, Nil Mediterranean. Tigris, Euphrates, Persian - gu Ganges, bay of Bengal. Mississippi, bay of Mexico

A MORE PARTICULAR ACCOUNT

of the several countries of Europe may be exhibited, as to give a precise idea of the situation of each su division, after the manner of the following specimen; which (beside what was proposed in general, note such as are contiguous Southward, are joined, as we La-: such as are contiguous Westward, are hyphene as in Che-De-&c.

ENGLAND.

ITS FORTY COUNTIES.

Nor cum-dúr: weLa-yórk: che-de-not-linc: shróp-st le-rut norf:

Hér-wo-wa-nórtha: Bed-hunt-cámb-suff: mon-gl-óx-buck-hert-ess.

Som--wilt--bérk--middlesex: corn--dev--dors--hán surrey-kentSuss.

FIRST MERIDIANS

ON EITHER SIDE OF TENERIFFE.

(Eást) London-as. (West) Fer-d. Jag-s. Nícol Corvó-bei. Bras-bou.

Abbreviatures.

Ferro St. Jago. St. Nicholas, coast of Brasil.

The Dutch placed the first Meridian at Teneriffe; the French, ce 1364, at Ferro, two degrees west of Teneriffe: others, variely, as in the memorial verse. In most of the French maps, and se copied from them, two degrees must be allowed on such as calculated on the Dutch plan, to make them correspond; as, example, Hamburgh is there said to be long. 29° 20' E. consecutly in the French maps it will be found in 31° 20', and in ilar manner are all the rest. Many modern geographers usually valculate the first Meridian from the capital city of the state which each resides: the English reckon from the Royal Obsertory at Greenwich, near London; the North Americans from ladelphia, situated 75° 8' W. from London; and several of the each from Paris, 2° 20' E. of London.

HISTORY.

BIBLE.

The several Books of it, with the time of their writing.

OLD TESTAMENT.

ITS THIRTY-NINE BOOKS

h-jöb: ápty. Mo-pent: bog. Jósh: boly. Sámju-ki: bazy. v: byly. Sol-pro-can-ecc: ath. Mórd-e: toz. E'z-chr: ety. Neh: eg.

PROPHETS.

NEW TESTAMENT.

ITS TWENTY-SEVEN BOOKS.

Matt-fa.² Mar-ot. Thess-lét. Pe-lo. Gal Cor Rón loi. Luke-sa.

Phíl Col Ephés Phile Jâme-sc. Heb Act-si. Timot Tit-su.

Tim Peter-aup. Jude-pá. Revel-ous. John-noí -³ doi in iau.

1. i. e. Elihu is more probably supposed to be the author of book of job, about 1730 years before the birth of Christ.

Moses, the author of the pentateuch, flourished in the year bef Christ 1400. And so of the rest.——N.B. Ezra is thought the Jewish doctors to have writ the chronicles [the 36th char of Genesis, the last of Joshua and Jeremiah; and to have revi and settled the canon of the Old Testament.]

2. i. e. Matthew writ his Gospel about the year of our Lord

And so of the rest.

3. i.e. 27 books (from the year 41 to 97) in 36 years.

ENGLAND.

TS KINGS, SINCE THE CONQUEST, WITH THE COMMENCEMI OF THEIR REIGNS.

WILL Conq-sau, Ruf-koi. HEN 1st-ag. STEPH-

HE sec-buf.
RICH 1st-bein. JOHN-ann. HEN 3d-das. EDWA 1st-doid.

Ed 2d-typ, 3d-tép. Ri sec-ipp. Hen 4th-toun, & fat,

5th-fed. Ed 4th-faub, 5th, RY 3d-feit. HE 7th-

ED 6th-lop. MARY-lut. ELS-luk. JAME 1st-syt. 1st-sel.

CAR 2d-són. JAME se-seil. WILL MA-sein. ANN-GEO-paf, pep.

1. i. e. William the conqueror began his reign (accounting the year to begin January 1) A. D. 1066. N. B. 1000 is omitted throughout this list.

MONARCHIES.

THE GRAND OR UNIVERSAL ONES, THEIR RISE, FALL, AND CONTINUANCE.

ASS: Nın(A.M.)-apôk, Sar-tetú (BAB-ifan, Perstáuboi, GREC-isel ÷

Cáss-ma-gre. Lys thrac-he-bós. Ptolem aé-lib-a-pálsy. Seleuc as.)

ROM: Jul-inýd, Jov-otat - East, Wést: taken Cón-loze, Rom-otun: Alar(A.D.)-obz. Atti-flä. Géns-ful. Od-ops. Theód-

oni. Tot-lop.

i.e. The—Assyrian Monarchy begun in Ninus (A.M.) 1748, ad ended with Assaraddinus in 3235; being swallowed up by he Babylonian, which ended (with Nabonadius) in 3419, (when lyrus reigned over all Asia,) so the kingdom was translated to he Persians: from whom (by the conquest of Darius Codomannus) 1 3617, Alexander translated it to the Grecians: after whose eath, in 3625, it was (\div) divided (after the confusion of a few ears) among four of his followers. Cassander had macedon and reece: Lysimachus had thrace, with those parts of Asia that order on the hellespont and the bosphorus: Ptolemy had ægypt. bya, arabia, palestine, and colo-syria: Seleucus, all the rest of The — Roman monarchy begun with Julius Caésar, in 902; and ended in Jovian in 4313: after whose death it was ÷) divided into the Eastern, and Western empires: the former f which ended by the taking of Constantinople (under Constantine 'alæologus) in 5402; the latter by the taking of Rome (under Ionorius) in 4359, A. D. 410, by Alaric, king of the Goths; after hom it was overrun and ravaged by Attila, king of the Huns, in 51; by Genseric, the Vandal, in 455; by Odoacer, king of the Ieruli, in 476; by Theodoric, king of the Ostrogoths in 493; "otilas, the Ostrogoth, in 547.

WAR.

BODIES OF SOLDIERS.

Déc-by. Cen-ázy. Man-eg. Turm-ig. Cohor-áug R] Legi-auth. Ph-eith.

Comp-uz, ag. Squad-ag, eg. Ba-lg, eig. Brigad ath, bag. Reg-ig, auth. E

1. The Roman Legion consisted of (at a medium) 6000 men though the number was different, at different times, from 3000 t 6666. And, in proportion, the other bodies, viz. Decuria, 16 Centuria, 100. Manipulus, 200. Turma, 300. Cohort, 600 Phalanx, S000.

2. An English Regiment is from 300 to 1000 men. And, i

Proportion, the other bodies, viz. Company, 50-100. Squadron 00-200. Battalion, 500-800. Brigade, 1000-1100.

NATURAL PHILOSOPHY.

PHYSICS.

ANNUITIES.

THEIR VALUE, FOR SEVERAL AGES OF LIFE.

A-bz,dei. Az-bi,fo. Ez-bĕ,pei. Iz-bă,pe. Oz-ăz,ŭi Ol-n,oub.

Uz-ou,eb. Ul-k,ub. Auz-oi,sy. Aul-ău,lo. Oiz-l,ic

1. i.e. for (A) I year of age, the value of an annuity is (bz, de 0.28 years' purchase. And so of the rest. V. Halley, ap Lov thorp, vol. iii. p. 669.

ARKS.

OF NOAH, AND OF THE COVENANT OR TESTIMONY, THEIL DIMENSIONS IN CUBITS.

(Cov) L-e,re. Br-á,re. D-a,ré. (NOAH) L-ig. Br-u D-iz; for Birds-eg, Qu-ag.

i.e. The Ark—of the Covenant was a sort of Chest in Length, Breadth, Depth, $2\frac{1}{2}$: $1\frac{1}{2}$: $1\frac{1}{2}$.—of Noah was a sort of Ship, 300: 50: 30: sufficient to hold (with food, &c.) all kinds of Birds (viz.) 200; Quadrupeds, 100. Vide Gen. vi. 15. Exod. xxv. 10.

ATMOSPHERE.

ITS HEIGHT, WEIGHT, ELASTICITY, &c.

Atmosphere (High miles-óz1) on a foot-square présses esauz pounds;

On 15 feét (for a man) tuns-al: when leást, tun-a,re less:2

WEIGHING as 1 —— to (water) eig —— to (mercury) azth eig.3

COMPREST, on Earth, to atpaun; by Art, 60 times more, to kesboz.

1. As appears by a calculation, made by M. de la Hire, from the crepuscula.

2. As appears by calculations made from the Torricellian expe-

riments. V. Jurin, ap Varen. 1. 6. 19. 7.

3. i.e. The weight of air compared to that of water, is as 1 to 800, &c. V. Hauksbee's Exper.

4. i.e. The common air we breathe, near the surface of the earth, is compressed, by the bare weight of the incumbent atmosphere, into a 13769th part of the space it would take up, were it at liberty. V. Boyle, ap. Wallis. hydrost. 13. Philos. Trans. n. 181.

DIVISIBILITY

OF MATTER, ACTUALLY GREAT.

By great Effluvia, in a long time, bodies lose but a small weight.1

Candle, an inch, convérted to LIGHT, - gives parts a nonillion.2

1. As is evident in perfumes, &c.

2. At which rate there must fly out of it, as it burns, in the second of a minute, 418,660,000.000,000.000,000.000,000.000,000. 900,000.000,000 particles; vastly more than 1000 times 1000 millions the number of sands the whole earth can contain; reckoning 10 inches to 1 foot, and that 100 sands are equal to 1 inch. V. Nieuwent, Rel. Phil. vol. iii. p. 858.

DUCTILITY

OF BODIES, VERY GREAT.

Microscópical SPIDERS¹ spín at -a - tíme, at least, threads-auth.

GLASS may be dráwn² as a web, and knit to the 4th of a line space.3

Gold, on Silver-wire, is drawn to the part of an inch-hom.

 i. e. Such as are not visible but by a microscope.
 . "As fine as a spider's web;" but not long enough to be woven.

3. i.e. So, that the space in the middle of the knot shall not ex-

ceed one 4th of a line, or one 48th of an inch.

4. "To the 14-millionth part of an inch in thinness;" and yet is so perfect a cover to the silver, that there is not an aperture to admit alcohol of wine (the subtilest fluid in nature) nor even light itself. Reaumur.

EVAPORATION

FROM WATER, ITS QUANTITY.

FOOT-square, by héat, in a day, eváporates hálf of a wine pint.1

So, Medi tuns-udkým; near a thírd more than's brought by the rivers.3

1. According to experiments made by Dr. Halley, ap Miscell. Curios. vol. i. To which it may be added, that the winds do sometimes carry off more than rises by heat.

2. Estimating the *Medi*terranean at 40 degrees long, and 4 broad.
3. V. Rivers; and, consequently, from the whole watery surface abundantly enough to furnish all the dews, rains, springs, rivers, &c. that are conveyed into the ocean.

MAN.

LIFE, MARRIAGE, PARTS, PERSPIRATION.

LIVE, out of ág, but—at Aú, so 1—at As, fy—at Es, dù
—at Is, bau

&—at Os, \(\alpha z — \text{\text{\text{at}}} \) Us, \(au — \text{\text{\text{at}}} = \text{at} \) Aus, \(\text{\text{i}} — \text{\text{at}} \)

MARR. a in azf: bir- f^3 (to bur as a, au to a^4) males-bo to fem-at.

Bones-eni. Muscles-len. Teeth-id—Blood as ag to aauy,6

Béats, in an hour, times-óth: and an ounce, at a time, is discharged:7

52 féet in a mínute; as sépt-ag to 1 in the extremes.8

PERSPIRE through póres (belth-whereof by óne grain of sànd may be covered)

5 părts of 8 (ă dăy's food) from hours 5, after méals, to the 12th, 3.9

1. i.e. Of the children born, out of 100, there are living at 6 years of age, but 64. And so of the rest. V. Halley, ap. Low thorp, vol. iii. p. 669.——N.B. On observations of this nature, drawn from the bills of mortality, is computed the value of annuities for different ages of life. V. Annuities.

2. i.e. 1 in 104 Marry. King.

3. i.e. Marriages, one with another, do each produce 4 births. Derham.

4. i. e. Births to Burials are as 1.6 to I. Derham.

5. i. e. Males, born, to Females, are as 14 to 13. Graunt.

6. i.e. In a body, weighing 160 pounds, 100 thereof are Blood; understanding thereby not only the fluid contained in the veins and arteries; but also that in the lymphæ-ducts, nerves, and the other vessels, secreted from it, and returned into it. Keil.

7. i.e. 250 pounds in an hour; at the rate of the whole mass in

24 minutes.

8. i.e. The blood is driven out of the heart into the great artery with a velocity which would carry it 52 feet in a minute: a velocity to that of its motion in the remotest branches, as 100 septillions [7th period] to 1.

9. Within 5 hours after eating, there is perspired about 1 pound

from the 12th to the 16th scarce half-a-pound. Sanctorius.

RIVERS.

THE QUANTITY OF THEIR WATERS.

At Kingston-bridge, Thames (yards Broad-ág, Deep-i)
2 mile an hour Runs:1

tuns-ezm igth in a day; rh e ti po ni do niest nieper akdoim.

1. In a day, 48 miles, 84,480 yards; which multiplied by (3 times 100, the profile of water at the bridge, viz.) 300 yards, gives

25,344,000 cubic yards of water, i.e. 20,300,000 tuns.

2. The most considerable rivers that fall into the Mediterranean gea are the Rhone, Ebro, Tiber, Po, Danube, Nile, Don, Niester, Nieper. Each of these is supposed to carry down 10 times as much water as the Thames, (not that any of them is so great; but so to allow for the other lesser rivers that fall into that sea.) Now the water of the Thames being computed, as above, at about 20,300,000 tuns; the 9 rivers aforesaid will amount, each, to 203,000,000; in all, 1,827,000,000 tuns. V. Evaporation.

MEMORIAL VERSES,

ADAPTED TO THE GREGORIAN ACCOUNT, OR NEW STYLE

TO KNOW IF IT BE LEAP YEAR.

Leap year is given, when four will divide The cent'ries complete, or odd years beside.

EXAMPLE FOR 1752.

4)52(0, Leap Year

EXAMPLE FOR 1800

4) 18 (2, not Leap Year

TO FIND THE DOMINICAL LETTER.

ivide the cent'ries by four; and twice what does remain, ake from six; and then add to the number you gain he odd years and their fourth; which, dividing by seven, hat is left take from seven, and the letter is given.

EXAMPLE FOR 1752.

$$4) \frac{17(1)}{2}$$

$$4 - \frac{2}{2}$$

$$6$$

$$-\frac{4}{52}$$

$$13$$

$$-\frac{7}{7}$$

$$7) \frac{69(6)}{9} = A$$

BY THE DOMINICAL LETTER, TO FIND ON WHAT DAY OF THE WEEK ANY DAY OF THE MONTH WILL FALL THROUGHOUT THE YEAR.

At Dover dwells George Brown, Esquire, Good Christopher Finch, and David Frier.*

EXAMPLE FOR MAY 9, 1752.

A being the Dominical Letter.

[•] See this noticed at page 94.

TO FIND THE GOLDEN NUMBER, CYCLE OF THE SUN, AND ROMAN INDICTION.

When one, nine, three, to the year have added been, Divide by nineteen, twenty-eight, fifteen: By what remains each cycle's year is seen.

EXAMPLES FOR 1752.

1752 3 15) 1755 (116 25 105 15 = Rom. Indict.

A GENERAL RULE FOR THE EPACT.

Let the cent'ries by four be divided; and then What remains multiplied by the number seventeen; Forty-three times the quotient, and eighty-six more Add to that; and dividing by five and a score; From eleven times the prime, subtract the last quote, Which, rejecting the thirties, gives th' epact you sought.

EXAMPLE FOR 1752.

TO FIND THE EPACT TILL THE YEAR 1900.

The prime wanting one, multiplied by eleven, And the thirties rejected, th' epact is given.

EXAMPLE.

TO FIND EASTER LIMIT, OR THE DAY OF THE PASCHAL FUL MOON, FROM MARCH 1, INCLUSIVE.

Add six to the epact, reject three times ten, What's left take from fifty, the limit you gain: Which, if fifty, one less you must make it, and even When forty-nine too, if prime's more than eleven.

EXAMPLE.

TO FIND EASTER DAY.

If the letter and four from the limit you take, And what's left from next number which sevens will make; Adding then to the limit what last does remain, You the days from St. David's to Easter obtain.

EXAMPLE.

TO FIND THE AGE OR CHANGE OF THE MOON.

Janus 0, 2, 1, 2, 3, 4, 5, 6, 8, 8, 10, 10, these to the epact fix, The sum, bate 30, to the month's day add, Or take from 30, age, or change, is had.

EXAMPLE, MARCH 10, 1752.

30 15

15 March = Change.

TO FIND THE TIME OF THE MOON'S COMING TO THE SOUTH,
AND OF HIGH WATER AT LONDON BRIDGE.

Four times the Moon's age, if by five you divide, Gives the hour of her southing: add two for the tide.

EXAMPLE.

Moon's Age, 9 days

$$\frac{4}{5}$$

5) 36 (7 h.
1
12 m = $\frac{1}{5}$ h.

h. 12 m. p.m. = Southing. 12 = High Water.

APPENDIX.

REPETES MOX; SIVE EST NATURÆ HOC, SIVE ARTIS
Sat. iv. lib. 2.

Horace, in the above words, alluded to the Art of Memory, (Mnemonica) more than once praised by Cicero, who has also given precepts for the improvement thereof, in the third book of Rhetoric addressed to Herennius, where he says, "the Art consisted of fixing in the mind, upon certain conspicuous places, and on images formed of the things to be remembered and that were applied in order to those places; which last mentioned served astead of paper, and the images as so many words, whose regular pplication performed the office of writing." Quintilian likewise nentions Mnemonics in his "Institutes of an Orator," and Pliny notices them in his "Natural History," though the original inventor was the Greek poet Simonides, who, at a feast, recited a poem in honour of Scopas, victor in wrestling at the Olympic games, who gave the entertainment; but having digressed in praise of Castor and Pollux, his patron would pay only half the sum promised, saying he must get the other part from those deities who had an equal share in his performance. Immediately after, Simonides was told that two young men on white horses must needs speak with him. He had scarce got out of the house, when the room fell down, all the persons in it were killed, and their bodies so mangled, that they could not be known one from another: upon which Simonides recollecting the place where every one had sat, by that means distinguished them. Hence it came to be observed, hat to fix a number of places in the mind in a certain order, was a nelp to the memory. This action of Simonides was afterwards improved into an art, the nature of which is this: form in the mind the idea of some large place or building, divided into a great number of distinct parts, ranged and disposed in order: frequently revolve these in your thoughts, till able to run them over one after another without hesitation, beginning at any part: then impress upon your mind many images of living creatures, or any

other sensible objects most likely to be soonest revived in the These, like short-hand or hieroglyphics, must stand to denote an equal number of other words, not otherwise so easily to be remembered. When therefore you have a number of things to commit to memory in a certain order, place these images regularly in the several parts of your building: and thus, by going over those parts, the images placed in them will be revived in the mind; which will give the things or words themselves in the desired order. The advantage of the images seems to be, that, as they are more likely to affect the imagination than the words, they will be more easily remembered. Thus, if the image of a lion be made to signify strength, and this word be one of those I am to temember, and is placed in the porch; when, in going over the several parts of the building, I come to the porch, I shall sooner be reminded of that image than of the word strength. This is the artificial memory both Cicero and Quintilian speak of; but scems, indeed, a laborious way; fitter for assisting to remember any number of unconnected words than a continued discourse. Grecian orators also made use of the statues, paintings, ornaments, and other external circumstances, of the places where they harangued, for reviving, in progressive order, the topics and matter of their orations; and though among the Latins, Cicero averred that Mnemonics were the basis of his excellent memory, and their practice was cultivated by others, of whom Hortensius, Crassus, Julius Cæsar, and Seneca, are particularly noticed, yet it is not known that any modern orator has made use of this art; however, in allusion to it, we still call the parts of a discourse places or topics, and say, in the first place, in the second place, &c.

The science appears to have lain dormant in after ages, till Raimond Lullé, about the close of the thirteenth century, brought it once more into notice, and it has ever since been called "Lullé's Art." Scepsius-Metrodorus, Carneades, Hippias, and Theodectes,

Scepsius-Metrodorus, Carneades, Hippias, and Theodectes, mong the ancient Greeks, practised or wrote upon this method. The principal Romans are mentioned above. The writers upon the art, from the time of Lullé to near the end of the seventeenth century, principally consisted of Marsilius-Ficinus, Grataroli, Bruschius, Muretus, Schenkel, Martin-Sommer, Horstius, Johnston, Morhof, and Paschius; with Gebelin in the eighteenth.

Muretus declares that he dictated between two and three thousand unconnected Greek, Latin, or barbarous words, to a young Corsican practising that art, who immediately spoke them regularly in order, and afterwards repeated the same backwards without any error, asserting that he would undertake to say thirty-six

thousand words in a similar manner.

Lambert or Lamprecht Schenkel, born at Bois-le-Duc, in 1547, acquired celebrity for his discoveries in the Mnemonic art, and to propagate these, he travelled through the Netherlands, Germany, and France; where his method was inspected by the great, and transmitted from one university to another. Schenkel brought himself through every ordeal, to the astonishment and admiration

him to teach his science at that University; and Marillon, Maîtra des Requêtes, gave him an exclusive privilege for practising Mnemonics throughout the French dominions. His auditors were, however, prohibited from communicating this art to others, under a severe penalty. Schenkel delegated the licentiate Martin-Sommer, and invested him with a regular diploma for circulating his art, under certain stipulations, through Germany, France, Italy, Spain, and the neighbouring countries. Sommer now (1619) published a Latin treatise on this subject, under the title of "Brevis Delineatio de Utilitatibus et Effectibus admirabilibus Artis Memoriæ." In this he announces himself as commissioned by Schenkel to instruct the whole world.

"A lawyer," says he, "who has causes to conduct, may, by the assistance of my Mnemonics, stamp them so strongly on his memory, that he will know how to answer each client, in any order, and at any hour, with as much precision as if he had but just perused his brief. And in pleading, he will not only have the evidence and reasonings of his own party at his fingers' ends, but all the grounds and refutations of his antagonist also! Let a man go into a library, and read one book after another, yet shall he be able to write down every sentence of what he has read many days after at home. The proficient in this science can dictate matters of the most opposite nature, to ten, or thirty writers, alternately. After four weeks' exercise, he will be able to class twenty-five thousand disarranged portraits within the space of a few minutes."

The Art of Memory is little more than the art of attention; and this method of it, which appears more connected with Egyptian hieroglyphics than has generally been thought, seems to consist in nothing else but a certain method of coupling or associating the ideas of things to be remembered, with the ideas of other things already disposed orderly in the mind, or that are before the eyes.

Many have been the attempts to assist the memory. Some have had recourse to medicine, such as Horstius, Marsilius-Ficinus, Johnston, and others. That good health, a good digestion, and a mind free from care, are helps in this respect, is an old observation. That attention, application, frequent recapitulation, are necessary, is known to every one. But whether, besides natura health, and parts, and the exercise of our faculties, art may not give a further assistance to memory has been a question.

Within the present century this science has been revived and greatly studied in Germany and France; Dr. Klüber published at Erlangen, in the year 1802, a German translation, illustrated by notes, of "Gazypholium Artis Memoriæ per Schenkelium," which the Doctor has entitled "Compendium of Mnemonics, or the Art of Memory, at the beginning of the seventeenth Century, by L. Schenkel and M. Sommer;" but the modern restorer of this art is M. Aretin, who exacted from his pupils a promise not to write down his lectures; and though he permitted one pupil, M. Kaest.

ner, to teach at Leipsic, yet it was on the express condition of not allowing his hearers to write. According to a book, said to have been composed by a child of twelve years of age, in the catalogue for the September fair at Leipsic, 1806, Mnemonica may be so taught as to give a memory to individuals of every age.

In France, the celebrated astronomer M. de Lalande bears testimony to the following facts: "I have witnessed the extraordinary effects produced on the memory by the method of M. de Feinaigle: one of his pupils is able to repeat, in any order, without the least mistake, a table of fifty cities in all parts of the world, with the degrees of longitude and latitude in which they are situated; the same is the case with chronology: in the 'Annuaire' I have inserted 240 dates from ancient and modern history, and M. de Feinaigle's scholars repeat them all—an astonishing aid

in the study of geography and history!"

Neither has this science been unattended to in Great Britain; for, besides Johnston already mentioned, who was a Scotch physician, practising at the courts of James and Charles I. Mnemonics are frequently mentioned by the great Chancellor Bacon, as in his "Treatise on the Advancement of Learning;" his "Natural History," wherein he states, "The brains of some creatures, when their heads are roasted, taken in wine, are said to strengthen the memory: as the brains of hares, hens, deer, &c. and this faculty seemeth to be incident to those creatures that are fearful." In the tract "De Augmentis Scientiarum," Bacon recommends theatrical action as an assistant to memory, and also alludes to the system of Simonides as founded on the theory of emblems, by saying, "Emblem reduceth conceits intellectual to images sensible, which always strike the memory more forcibly, and are therefore the more easily imprinted, than intellectual conceits." In the "Novum Organum" the science is again mentioned under the appellation of "Order or Distribution in respect to places, furniture, persons, animals, plants, words, letters, characters, &c."

Dr. Thomas Fuller, the author of the "History of the Worthies of England," was also an adept at this art; he would repeat five hundred strange words after twice hearing them, and make use of a sermon verbatim, if he once heard it: after one inspection, he told in exact order, both forwards and backwards, the name of every sign from Temple Bar to the furthest part of Cheapside, in the city of London; he would write the first words of a number of lines near the margin of a sheet of paper, then, by beginning at the head, would so completely fill up every line, and without spaces, interlineations, or contractions, so connect the whole, that the sense would be as perfect, as if regularly written in the ordinary way.

The following works were also expressly published on this subject: "Mnemonica, or the Art of Memory, drained out of the pure Fountains of Art and Nature, digested into three books; also a Physical Treatise of Cherishing Natural Memory; diligently collected out of divers Learned Men's Writings. By John Willis,

Batchelour in Divinity, in 1661."

This author's method commences with rules for remembering common affairs, next words, then phrases, afterwards sentences, and long speeches. The second book treats of remembering without writing, next by certain verses purposely borne in mind and by extempore verses. The third treats of Repositories, in which is a print of an imaginary building of hewn stone in form of a theatre, where all things intended to be remembered are supposed to be arranged in order, and he gives various specimens of ideas to exemplify his plan.

"The Art of Memory, a Treatise useful for all, especially such as

are to speak in public. By Marius D' Assigny, B. D. 1699."

This gentleman's mode begins with a chapter on the soul or spirit of man, and in the succeeding chapters, after treating of memory, temper, &c. he gives in the sixth a number of receipts for cleansing the hair, comforting the brain, and strengthening the memory, by means of plasters, ointments, and powders, and in his other chapters proceeds with some instructions for remembering words and things; as, for instance, he states, that "others, instead of a house, palace, or building, have chosen such beasts as answer to all the alphabetical letters in the Latin tongue, dividing every one into five parts, viz. head, fore feet, belly, hinder feet, and tail, so that by this means the fancy may have one hundred and fifteen places to imprint the images of memorable things."

Heidegger, who about the year 1740 styled himself Surintendant de Plaisirs d'Angleterre, at the Opera in the Haymarket, excelled Dr. Fuller, by being able to repeat the names of all the signs in their due order on each side of the way from Charing Cross to Aldgate, a space containing near one thousand four hundred houses,

most of which at that period had signs.

Dr. Rees, editor of Chambers's Cyclopædia says, "Mnemonic tables exhibit in a regular manner what is to be remembered of the same subject. And although the sciences ought to be taught scientifically as much as possible, and every thing should so be placed as to be intelligible, and demonstrable from what has proceeded, yet tables ought not to be rejected, as they are helps to retain the doctrines of which the mind has had a sufficient evidence. In such tables the properties of things are to be expressed concisely; illustrations and demonstrations should be left out, as the proposition should have been made sufficiently clear and certain before it is registered in the table—hence the contents of such tables ought only to be definitions and propositions relative to the subject. If a subject require a long table, it may be subdivided into smaller, by making first one of the most general heads, and referring from each of these to a separate table; by this means the order and connexion of the whole will be preserved. Such tables would produce a local and artificial memory of great use to the retention and recollection of things: they would greatly tend to a distinct view of the properties of their subjects, and facilitate recapitulation. Besides, as the expressions used in such tables ought to be concise, so as just to excite the idea of the object to

be remembered, soon after that idea has been acquired; after (some time) a certain obscurity will be found in perusing the tables, which will give timely warning that our ideas begin to fade and that they ought to be renewed; and this may be done witho.

much trouble, if not delayed too long."

"Men complain of nothing more frequently (says Beattie in the 'Theory of Moral Science') than of deficient memory: and indeed every one finds, that, after all his efforts, many of the ideas which he desired to retain have slipt irretrievably away; that acquisitions of the mind are sometimes equally fugitive with the gifts of fortune; and that a short intermission of attention more certainly lessens knowledge than impairs an estate. To assist this weakness of our nature, many methods have been proposed; all of which may be justly suspected of being ineffectual: for no art of memory, however its effects may have been boasted or admired, has been ever adopted into general use: nor have those who possessed it appeared to excel others in readiness of recollection or multiplicity of attainments. The reader who is desirous to try the effect of those helps, may have resource to a treatise entitled 'Grey's Memoria Technica, or Method of Artificial Memory: 'but the true

method of memory is attention and exercise."

A writer in the "Monthly Magazine" for September, 1807, under the signature of Common Sense, tells us the Art of Mnemonics is founded simply on the powers of association in the human mind. Every person who has twice travelled the same road, will probably have brought to his recollection, during the second journey, the feelings of his mind, the subjects of conversation, and other trivial incidents which occurred during his first journey, the moment he comes again within sight of the successive objects; these recollections will take place exactly in the same order as the objects which bring them again before the mind. All that is wanted to enable us to retrace any set or succession of ideas, is an unvarying continuity of objects with which we can associate Any person who wishes to try an experiment on this power of association, need only make use of the succession of rooms, closets, staircases, landing-places, and other remarkable spots or divisions of his own house. Let him apply any word or idea to the several parts, in determined order, and he will find it almost impossible, in recalling the same, not to associate the idea or word previously annexed to each part; for example, a person may learn the succession of the kings of England in ten minutes, by annexing the name of each succeeding monarch to the successive rooms, &c of the house, regularly descending or ascending; but any other permanent and familiar class of objects will, in general, answer the purpose better. I was educated in the vicinity of Oxford-street, and the streets running therefrom, south and north, (beginning at Charles-street, Soho-square, and proceeding to Park-lane, are back again on the other side to Hanway-yard,) are the permanent and familiar objects I use for the purpose of successive association The counties in England, the kingdoms and countries throughout

the world, the villages, and other objects on a great road, or the streets of a city, are all well suited to this business of association. and any of them may be taken indifferently by various persons. according to their acquaintance therewith. The greater the variety of ideas connected with this set of objects, which may be called the associating key, the more easy and certain is the power of recollection. By this method I once committed to memory, in a single morning, the whole of the propositions contained in the three first books of Euclid, with such perfection, that I could fot years afterwards specify the number of the book on hearing the proposition named, and recite the proposition on hearing the number and the book; and have frequently, in mixed companies, repeated backwards and forwards from fifty to a hundred unconnected words, which have been but once called over. To prove the simplicity of the plan, I taught two of my own children to repeat fifty unconnected words in a first lesson, of not more than half an hour's continuance.

CHRONOLOGICAL WORDS

ON DR. GREY'S PLAN.

Creothf, the creation of the world, 4004 years A. C. Deletok, the deluge, 2348. Babetheop, the building of Babel, 2247. Argonatlou, the Argonautic expedition, 1359. Lycurgoudau, the birth of Lycurgus, 926. Olympois, the Olympic games, 776 Romput, the foundation of Rome, 753 Ninevsud, the destruction of Nineveh, 602. Marathony, the battle of Marathon, 490. Alexanderilau, the birth of Alexander, 356. Ipsiza, the battle of Ipsus, 301. Cheronitei, the battle of Cheronaa, 338. Pharsalok, the battle of Pharsalia, 48, Philippod, the battle of Philippi, 42. Actita, the battle of Actium, 31. Jesit, the resurrection of Jesus Christ, A. D. 33. Herculanoin, the destruction of Herculaneum, 79. Jerusaloiz, the destruction of Jerusalem, 70. Romoaz, Rome sacked by Alaric, 410. Romopy, Rome being taken by Odoacer, 470. Mahomupa, the birth of Mahomet, 571. Mahomaudd, the Hegira of Mahomet, 622. Mahomsid, Mahomet's death, 632. Jerusalstau, Jerusalem taken by Omar, 636. Charlemoife, the birth of Charlemague, 742. Charlemeiyz, Charlemagne crowned at Rome. 800. Alfreiouz, Alfred divided England into counties, &c. 890. Canutazap, Canute became king of England, 1017. Machazoy, Macbeth usurped the throne of Scotland, 1040. Williazsau, England conquered by William of Normandy, 106 Crusadazoul, the first crusade commenced, 1095. Henrag, Henry I. commenced his reign, 1100. Ghibelaglo, the Ghibelines and Guelphs disturbed Italy, 1154 Jerusalagkoi, Jerusalem taken by Saladin, 1187.

Constantinopladyd, Constantinople taken by the French a

Venetians, 1202

Turkadouk, the Turkish empire commenced under Othman, 1298. Bannockataf, the battle of Bannockburn, 1314.

Crecatos, the battle of Crecy, 1346. Poicatlau, the battle of Poictiers, 1356

Otterbateik, the battle of Otterburn, 1388.

Tamerlafyd, the victory of Tamerlane at Angoria, 1402.

Agincourafal, the battle of Agincourt, 1415.

Columbafoud, Columbus discovered Hispaniola and Cuba, 1492. Cabotafoun, Sebastian Cabot landed in North America, 1499.

Maximilalyz, Maximilian divided Germany, 1500.

Luther alboi, Luther commenced the Reformation, 1517.

Charlalbou, Charles V. elected emperor, 1519.

Rhodalde, Rhodes taken, 1522.

Pavaldu, the battle of Pavia, 1525.

Romaldoi, Rome taken by Charles V. 1527.

Passalud, the treaty of Passau, 1552. Vervalouk, the peace of Vervins, 1598.

Pragasez, the battle of Prague, 1620

Barbadasel, the planting of Barbadoes, 1625.

Lutzasid, the battle of Lutzen, 1632.

Westphalasok, the treaty of Westphalia, 1648. Nimegbaupei, the peace of Nimeguen, 1678.

Revolaskei, the revolution in Britain, 1688.

Gibraltapzo, Gibraltar taken by Admiral Rooke, 1704.

Blenheiboiyf, the battle of Blenheim, 1704. Malplaboizou, the battle of Malplaquet, 1709.

Dettinapot, the battle of Dettingen, 1743. Fontenboifu, the battle of Fontenoy, 1745.

Mindenaplou, the battle of Minden, 1759. Grenadapoin, Grenada taken by the French, 1779.

Bastilapkou, the Bastile destroyed, 1789. Louis apni, Louis XVI. guillotined, 1793.

Camperdapnoi, the Dutch defeated off Camperdown, 1797.

Nilapnei, the battle of the Nile, 1798.

Seringapnou, the taking of Seringapatam, 1799.

Trafalgakyl, the battle of Trafalgar, 1805. Regenakba, Prince of Wales appointed Regent 1811.

Moscobeibe, the burning of Moscow, 1812. Waterlakal, the battle of Waterloo, 1815. Geo-fobcidy, accession of George IV. 1820.

Napobeida, the death of Napoleon Buonaparte, 1821.

Will-fobeity, accession of William IV. 1830.

CHRONOLOGICAL EXERCISES

ON DR. GREY'S METHOD OF ARTIFICIAL MEMORY.

Form memorial words expressive of the era of the building Babel, 2217 years before Christ.

The building of Thebes, 1493.

The building of Corinth, 1320

The building of Tyre, 1252.

The burning of Troy, 1184.

The building of Carthage, 869.

The foundation of Byzantium, 658

The taking of Babylon by Cyrus, 538.

The battle of Salamis, 480.

The battle of Mantinea, 363.

The battle of Arbela, 331.

The taking of Corinth by the Romans, 146.

The battle of Pharsalia, 48; and the death of Julius Cæsar, years A.C.

The commencement of Trajan's reign, A.D. 98.

The commencement of Aurelian's reign, 270.

Charlemagne sole monarch of France, 772.

The battle of Roncesvalles, 778.

The commencement of the reign of Alfred, 872.

The commencement of the reign of Canute, 1017. The commencement of the reign of Stephen, 1135.

The commencement of the reign of Margaret of Norway, 1286

The battle of Angoria, 1402. The battle of Barnet, 1471.

The revolution in England, 1689

The battle of Dettingen, 1743.

The siege of Gibraltar, 1779.

The destruction of the Bastile, 1789.

The union between Great Britain and Ireland, 1800.

The surrender of Alexandria to the British troops, 1801.

THE USE OF THE INDEX.

THE following Index may be useful in two respects: either as t will serve to try the proficiency of the learner, who may exercise himself in resolving and explaining the memorial words, thus separated from their proper classes, and intermingled with each other, (which will at the same time be a means to fix them the better in his memory;) or, as it may be to those who are a little acquainted with the art, but have not charged their memories with the technical ines, a ready help to answer many questions in chronology, geography, history, &c. without the trouble of searching for them in he tables: to make which the easier in the historical and chronoogical part, it was thought proper to add a letter or two at the end of each word; by the help of which, and the beginning of the words together, any one, who is but tolerably acquainted with history, and is master of the general key, will readily know what the words stand for. The principal abbreviations are as follow:

AB. Archbishop of Canterbury.

Ær. Æra or epocha.

B. Battle.

B. R. Bishop of Rome.

C. Council.

Ep. Epistle, i.e. the time of writing it.

Ev. Evangelist.

E. R. Emperor of Rome.

E. E. Emperor of the East.

E.W. Emperor of the West

F. Father.

H. Heretic, Schismatic, &c.

H. P. High Priest.

J. Judge of Israel.

K. King.

K. Ass. King of Assyria.

K. B. King of Babylon.

K. E. King of England.

K. Eg. King of Egypt.

K. Ju. King of Judah.

K. Is. King of Israel.

K. M. King of Media.

K. Ma. King of Macedon.

K. P. King of Persia.

K.R. King of Rome. K.S. King of Syria.

L. Lawgiver, Learned Man,

Author, &c.

Leg. Legate.

Mart. Martyr.

P. Pope.

Pa. Patriarch.

Ph. Philosopher.

Po. Poet,

Pr. Prophet.

Q. Queen.

W. War.

= Different Names of the same

Those words which have no letter at the end of them, denote some fact in history; as Abaneb, the calling of Abraham.

The italic letters represent the year before or after Christ. The small capitals M and P in the middle of a word denote the year of the world, or of the Julian period; as TroyPilta, &c.

Be careful to give the right pronunciation; and note, that the accent, unless where otherwise marked, or when the penultima, or last syllable but one, is long by position, is always on the antepenultima, or last syllable but two.

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CONSTRUCTION AND USE

OF THE

GEOGRAPHICAL WORDS.

OF words consisting of two parts in the same character, joined with a hyphen, the first part denotes a city, town, people, &c. in a kingdom, region, or province, denoted by the latter: the words in *Italic* letters signifying places in ancient Geography, the words in *Roman* letters, places in modern Geography. Thus, Abdérthra; Abdera, a town in ancient Thrace. Aginc-art; Agincourt in Artois.

Words in a parenthesis denote that the place represented by the first syllable or syllables, is one of those represented by the latter, as (Antig-lee) Antigua, one of the Leeward Islands; (Cub-ant) Cuba, one of the Antilles.

The letters N. E. S. W. either following or in a word, denote the situation of a place; as Antill-luc S. the Antilles Islands, South of the Lucayos; Madéir-barb W. Madeira Isles, West of Barbary; AmNEmoab, the Ammonites resided on the North-East of Moab. S. preceding a word signifies Saint.

The letters G.S. denote Sacred Geography.

A small capital at the end of a word denotes a particular portion or division of the region designed by the preceding letters; as $Equi{-}lat_N$ points out that the Equi dwelt in Latium Novum; Batch-tartar, that Batchiserai is situated on the peninsula of Little Tartary.

Italics joined with a hyphen denote the latitude and longitude of a place: as, Agrêk-oit, the latitude of Agra 28 deg. the longitude 73.

Italics joined with a comma denote the proportion of the king-dom, &c. to Great Britain; as Germt, ut, Germany to Great Britain as 3.53 to 1.

Italics joined without a hyphen generally denote the distance from London or Jerusalem; as Pardel sc. Paris from London about 225 miles; Antiochig, Antioch from Jerusalem about 300 miles.

Syllables joined with this mark = denote correspondent places of ancient and present geography. Ach = livad, the ancient Achaia, the present Livadia.

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Acroc-epir	Antióch-pisid
Act-acarnib.	Ant-volsib.
Adrám-mysi	Aquilei-carnib.
$\mathcal{E}g\mathscr{E}=\operatorname{arch}^*$	Aram=syr-mes G.S 82
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N.B. These Indexes do not contain quite all the words, but it is hoped enough is inserted to answer every useful purpose.

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